
PROTEL
TEST AND MONITORING
ANTENNAS
2026

UFFICI COMMERCIALI E LABORATORI Via Magellano 3/6 20090 CESANO BOSCONE (MI)
Tel. + 39-0248600265 Fax + 39-0248600871
WWW.PROTEL.IT protel@protel.it

A SINGLE COMPLETE SOLUTION FOR FIELD MONITORING OF RADIOELECTRIC EMISSIONS IN THE BAND

50 MHz ÷ 6 GHz

UN'UNICA SOLUZIONE COMPLETA PER IL CONTROLLO SUL TERRITORIO DELLE EMISSIONI RADIOELETTRICHE IN BANDA

50 MHz ÷ 6 GHz

Protel è un'azienda italiana che progetta e produce antenne professionali per telecomunicazioni dal **1988**. I nostri prodotti coprono una vasta gamma di applicazioni. L'attenzione nei dettagli e l'uso di materiali di alta qualità garantiscono sempre prestazioni eccellenti e durabilità nel tempo.
L'esperienza maturata su campo in quasi quaranta anni di attività con la propria divisione di monitoraggio, gli ha consentito di progettare prodotti sempre rispondenti alle specifiche esigenze dei propri clienti, riscontrando sempre il favore degli stessi. Le soluzioni adottate, sono state costantemente innovative come gli elementi pieghevoli, gli innesti rapidi o gli attacchi magnetici, che hanno molto facilitato il trasporto ed una installazione sicura sui mezzi mobili.
Le nostre antenne, sono ideali per il monitoraggio e la sorveglianza radioelettrica, e sono la scelta giusta per centri di controllo fissi e operazioni di misura su autoveicoli offrendo una soluzione versatile ed efficiente anche per la ricerca interferenziale.

COME LAVORIAMO

Tutte le nostre antenne sono corredate oltre che del manuale di istruzioni, anche di tutti i test relativi al guadagno, del fattore di calibrazione, return loss, diagrammi di radiazione e dichiarazione di conformità dei test eseguiti. Tutti i nostri collaudi vengono eseguiti in camera anecoica o campo prove esterno costituito da due torri che raggiungono un'altezza di 22 metri dal terreno, completo di stratificazione e rotatore con una precisione di ±1°. La strumentazione è controllata e provvista sempre di certificati di calibrazione aggiornati.

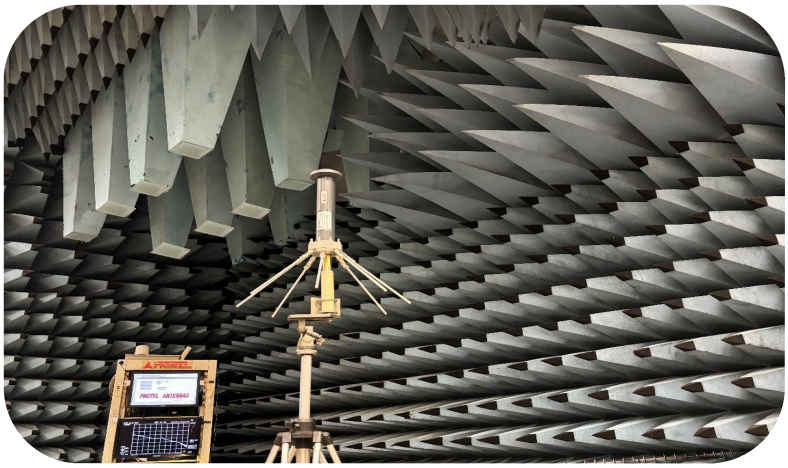
Protel is an Italian company that has been designing and manufacturing professional antennas for telecommunications since **1988.** Our products cover a wide range of applications. Attention to detail and the use of high-quality materials always ensure excellent performance and long-term durability.The experience gained in the field over almost forty years of activity through our own monitoring division has enabled Protel to design products that consistently meet the specific needs of its customers, always receiving their appreciation. The solutions adopted have always been innovative, such as folding elements, quick couplings and magnetic mounts, which have greatly facilitated transport and safe installation on mobile units.Our antennas are ideal for radio monitoring and surveillance and represent the right choice for fixed control centres and vehicle-based measurement operations, offering a versatile and efficient solution also for interference detection.

HOW WE WORK

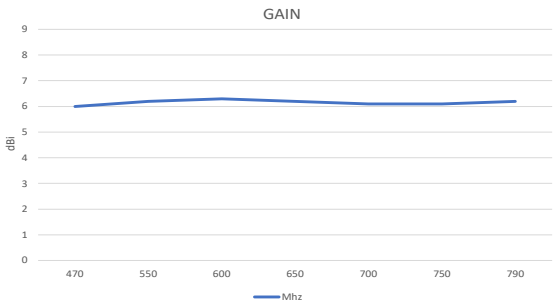
All our antennas are supplied not only with an instruction manual, but also with all test reports relating to gain, calibration factor, return loss, radiation patterns and the declaration of conformity for the tests performed.All our tests are carried out in an anechoic chamber or on an outdoor test range consisting of two towers reaching a height of 22 metres above ground level, complete with a height-positioning system and rotator with an accuracy of ±1°. The instrumentation is regularly checked and always provided with up-to-date calibration certificates.

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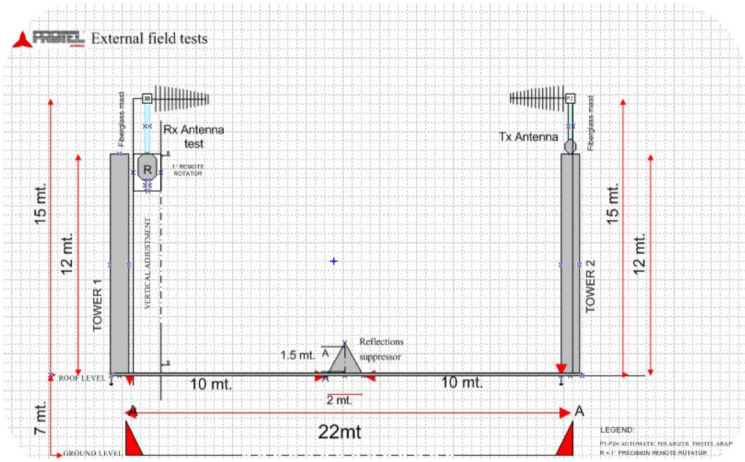
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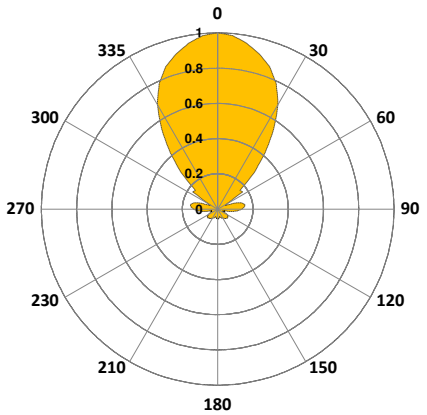


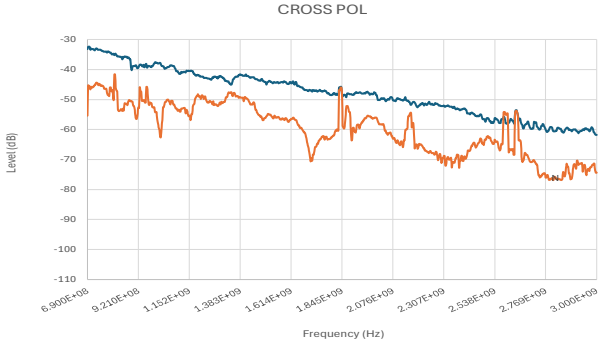














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PAGE	TYPE	PRIMARY SERVICES	FREQUENCY (MHz)
	OMNIDIRECTIONAL		
1	AR0213XZ	BROADCAST FM	87.5 ÷ 108
2	AR0213IRXZ	BROADCAST FM	87.5 ÷ 108
3	AR0213EPZ	BROADCAST FM	87.5 ÷ 108
4	AR0314XZ DAB	BROADCAST DAB	174 ÷ 240
5	AR0314IRXZ DAB	BROADCAST DAB	174 ÷ 240
6	ARM2FM	BROADCAST FM	87.5 ÷ 108
7	ARM2DAB	BROADCAST DAB	174 ÷ 240
	DIRECTIONAL		
8	ARL60R/F80XZ		60 ÷ 80
9	ARL70V2500XZ		70 ÷ 2500
10	ARL70RF2500XZ		70 ÷ 2500
11	ARL80R/F150XZ		80 ÷ 150
12	ARL80R/F1500XZ		80 ÷ 1500
13	ARL87R/F108XZ	BROADCAST FM	87.5 ÷ 108
14	ARL108R/F170XZ		108 ÷ 170
15	ARL100R/F500XZ		100 ÷ 500
16	ARL150R/F1300XZ		150 ÷ 1300
17	ARL170R/F250XZ	BROADCAST DAB	170 ÷ 250
18	ARL170R/F1000 XZ		170 ÷ 1000
19	ARL380/F3000XZ		380 ÷ 3000
20	ARL470F790XS	BROADCAST TV	470 ÷ 790
21	ARL470SF790XZ	BROADCAST TV	470 ÷ 790
22	ARL690F2700XZ		690 ÷ 2700
23	ARK101XZ	INTERFERENCE FINDER	790-960/1710-2170/ 2500-2700
24	ARK102XZ	INTERFERENCE FINDER	750 ÷ 1000
25	ARK103XZ	INTERFERENCE FINDER	1350 ÷ 2200
26	ARBFAXZ	INTERFERENCE FINDER	2400 ÷ 2700
26	ARBFAXZ	INTERFERENCE FINDER	3400 ÷ 3700
26	ARBFAXZ	INTERFERENCE FINDER	5100 ÷ 5850
	LOW NOISE AMPLIFIER		
27	LNA07400	ULTRA LOW NOISE AMPLIFIER	700 ÷ 4000

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38 anni insieme a voi
38 years together



Sono lieto di darvi il benvenuto nel mondo dei prodotti Protel e festeggiare con Voi un traguardo molto importante per tutti noi, 38 anni di attività. Era il 1988 quando iniziò la nostra avventura, che ci ha portato oggi a riconoscere con estremo orgoglio di aver fatto un buon lavoro.
L'entusiasmo e la caparbietà costante, ci ha consentito di progettare e produrre antenne che oggi sono apprezzate in tutto il mondo e che consentono a centinaia di migliaia di persone di comunicare tutti i giorni tra loro in qualsiasi ambiente e condizione climatica. Questo per noi è il miglior biglietto da visita, motivo di gratificazione professionale e stimolo per ogni collaboratore che lavora nella nostra azienda. In questi 38 anni, la grande passione e l'impegno ci hanno sempre guidato e spronato a raggiungere tutti gli obbiettivi che le nostre idee e quelle dai nostri clienti ci hanno imposto. Questo ci ha consentito di crescere insieme a loro e raggiungere risultati sempre più ambiziosi ed importanti.

Non vi nascondo che ogni tanto ripercorrendo tutti questi anni a ritroso e ripensando a tutte le avventure, i progetti gli studi e prove fatte, nasce un leggero senso di mestizia per il tempo passato, ma questa sensazione è subito sedata da i costanti importanti obbiettivi che tutti i giorni chiunque lavora nella nostra azienda si pone. La nostra filosofia e quella di cercare costantemente di migliorare qualsiasi cosa noi progettiamo e costruiamo per offrire a tutti i nostri clienti un prodotto sempre più performante e rispondente alle esigenze del mercato e delle richieste che ci pervengono. Non abbiamo mai ignorato o sottovalutato nessuna richiesta specifica, gran parte del nostro catalogo che oggi vede più di duecento prodotti, è stata realizzata su input diretto o indiretto dei nostri clienti, senza contare le decine e decine di progetti che abbiamo studiato e prodotto ma che non sono stati resi pubblici. Io vi confermo che sono molto felice di aver raggiunto questo importante traguardo con Voi. Sono anche sicuro che se non siete ancora nostri clienti, lo diventerete in futuro, perché se siete veri appassionati, progettisti o utilizzatori esigenti, prima o poi penserete di provare una nostra antenna e ne apprezzerete sicuramente i risultati. Io vi do appuntamento al prossimo traguardo e Vi posso personalmente assicurare che il nostro impegno è sempre ai massimi livelli al fine di realizzare prodotti sempre più affidabili, competitivi e rispondenti alle Vostre richieste.

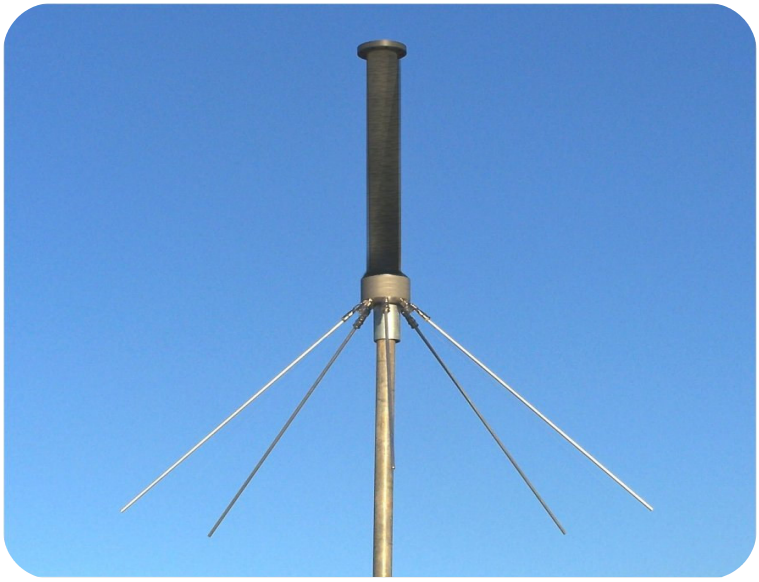
Roberto Anzelmo
(Founder & CEO)

* *I am pleased to welcome you to the world of Protel products and to celebrate with you a very important milestone for all of us: 38 years in business. Our adventure began in 1988, and today we can say with great pride that we have done a good job.*
Our enthusiasm and steadfast determination have enabled us to design and manufacture antennas that are now appreciated around the world and allow hundreds of thousands of people to communicate with one another every day, in any environment and under any weather conditions. For us, this is the best calling card—a source of professional pride and a motivation for everyone who works in our company.
Over these 38 years, passion and commitment have always guided and encouraged us to achieve every objective inspired by our own ideas and by those of our customers. This has allowed us to grow alongside them and to reach increasingly ambitious and significant results.
I won't hide that, from time to time, when I look back over these years—thinking of all the adventures, projects, studies and tests a slight sense of wistfulness arises for the time gone by. Yet this feeling is quickly dispelled by the important goals that everyone in our company sets for themselves every day.
Our philosophy is to constantly strive to improve everything we design and build, so we can offer all our customers products that are ever more performant and aligned with market needs and the requests we receive. We have never ignored or underestimated any specific requirement. A large share of our catalogue now numbering more than two hundred products was developed from direct or indirect customer input, not to mention the dozens upon dozens of projects we have engineered and produced but not made public.
I can confirm that I am very happy to have reached this important milestone with you. I am also confident that, if you are not yet our customer, you will become one in the future: if you are true enthusiasts, designers or demanding users, sooner or later you will consider trying one of our antennas and will surely appreciate the results.
I look forward to our next milestone together, and I can personally assure you that our commitment remains at the highest level to deliver products that are ever more reliable, competitive and responsive to your needs.
Roberto Anzelmo
(Founder & CEO)

Antenna type ARO.213XZ

OMNIDIRECTIONAL BROADBAND ANTENNA

87.5 ÷ 108 MHZ



ELECTRICAL DATA		
Frequency range A	MHz	87.5÷108
Bandwidth	MHz	20.5
Gain max .	dBi	2.2
Return loss	dB	87.5-108 Mhz ≥ -12
Return loss	dB	90 - 104 Mhz ≥ -14
Nominal impedance	Ω	50
Polarization	Ω	V
H beamwidth 98 Mhz	-3 dB	360°
E beamwidth 98 Mhz	-3 dB	90°
Max Power	W	500 W
Connector		Nf
Lightning protection	All metal parts are D.C. grounded	

MECHANICAL DATA		
Dimension length	mm	750XØ130
Elements numbers		4
Weight without clamp	kg	1.9
Wind surface	m²	0.05
Front wind load	Kg	2.1 (25 m/s)
Mounting	mm	Ø 30

MATERIALS

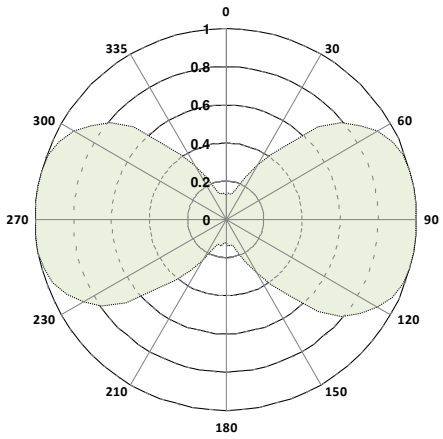
Anticorodal alluminium - Brass - Teflon
- Polyvinyl chloride - RoHS compliance

ACCESSORIES

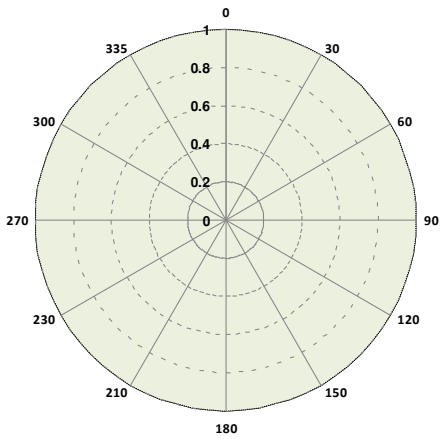
SUPIS01		Isolation fiberglass pole ø 35 x 1000
BAG213xz		Transport bag

ORDERING AND PACKAGING INFORMATIONS

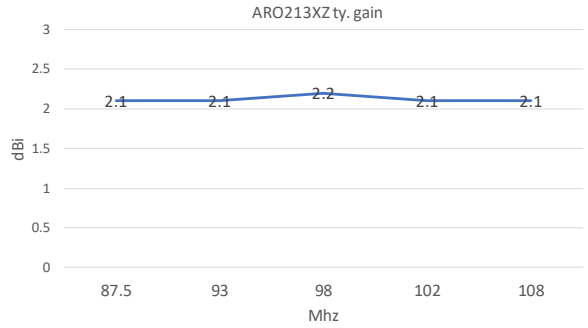
ARO213XZ	With unscrewed elements
ARO213IRXZ	With folding elements
PACKAGING mm.	900x150x150 / weight 3 Kg without clamps

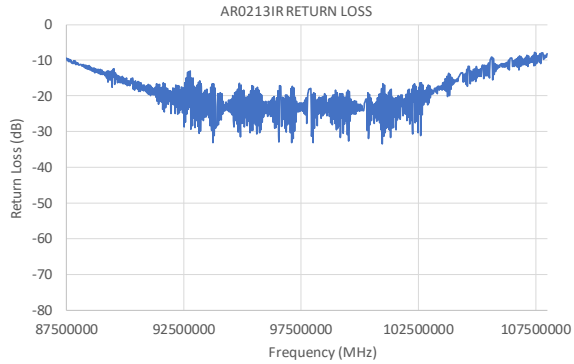


98 Mhz E plane



98 Mhz H plane





In relazione alle normative in materia di responsabilità sui prodotti, segnaliamo che nel caso di utilizzo delle nostre antenne in condizioni operative particolari, quali ad esempio forti sollecitazioni dinamiche dovute a vento, vibrazioni o deformazioni delle strutture di sostegno, si possono verificare rotture del prodotto stesso e/o la caduta a terra. L'installatore che deve essere altamente qualificato, deve conoscere le normative nazionali di sicurezza in vigore, deve seguire le informazioni contenute nelle nostre istruzioni, deve verificare sempre l'adeguatezza del prodotto stesso alle condizioni operative del sito di installazione e deve controllare l'installazione operando la manutenzione periodica dell'impianto. ---- In relation to the laws concerning product liability, we notify you that in case you use our antennas in severe operative conditions such as, for example, strong wind, vibrations or distortions of the support structure, the product can break and/or fall down. The person who install the product must be skilled, must know the national security law in force, must follow the product instructions, must check that the product is compatible with the installation site and must control the installation with periodical maintenance.

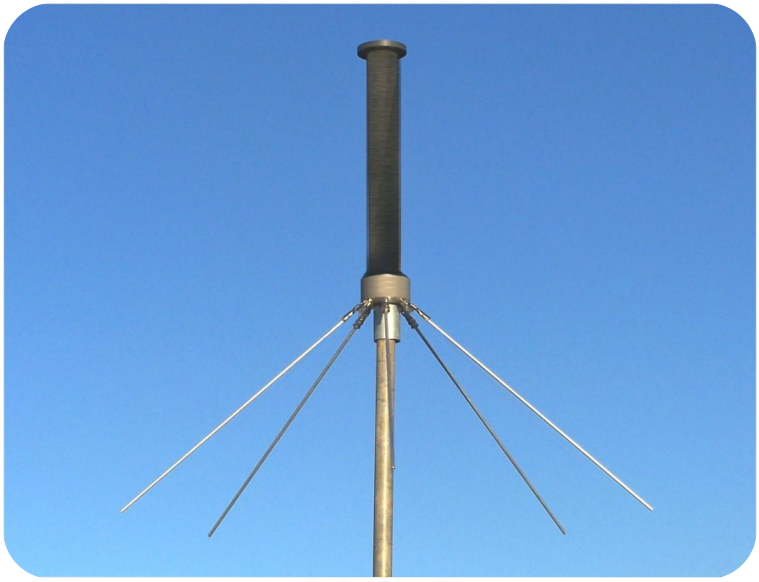
Updating 02/2017

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Antenna type ARO.213IRXZ

OMNIDIRECTIONAL BROADBAND ANTENNA

87.5 ÷ 108 MHZ



ELECTRICAL DATA		
Frequency range A	MHz	87.5÷108
Bandwidth	MHz	20.5
Gain max .	dBi	2.2
Return loss	dB	87.5-108 Mhz ≥ -12
Return loss	dB	90 - 104 Mhz ≥ -14
Nominal impedance	Ω	50
Polarization	Ω	V
H beamwidth 98 Mhz	-3 dB	360°
E beamwidth 98 Mhz	-3 dB	90°
Max Power	W	500 W
Connector		Nf
Lightning protection		All metal parts are D.C. grounded

MECHANICAL DATA		
Dimension length	mm	750XØ130
Elements numbers		4
Weight without clamp	kg	1.9
Wind surface	m²	0.05
Front wind load	Kg	2.1 (25 m/s)
Mounting	mm	Ø 30

MATERIALS

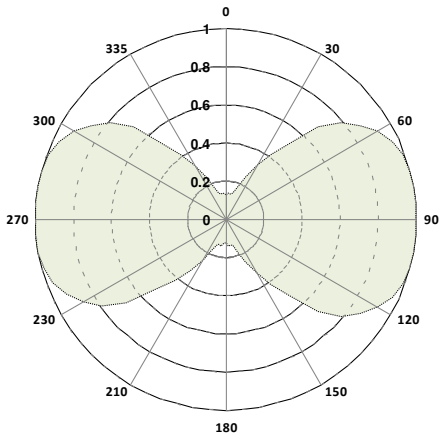
Anticorodal alluminium - Brass - Teflon
- Polyvinyl chloride - RoHS compliance

ACCESSORIES

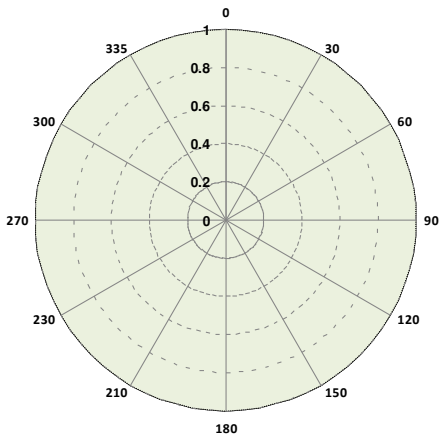
SUPIS01		Isolation fiberglass pole ø 35 x 1000
BAG213xz		Transport bag

ORDERING AND PACKAGING INFORMATIONS

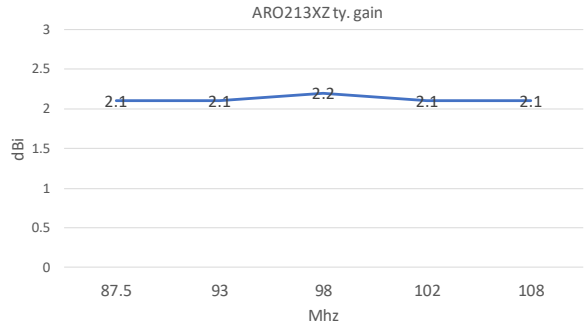
ARO213XZ	With unscrewed elements
ARO213IRXZ	With folding elements
PACKAGING mm.	900x150x150 / weight 3 Kg without clamps

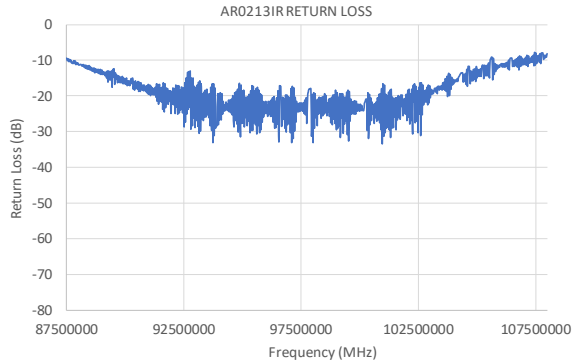


98 Mhz E plane



98 Mhz H plane





In relazione alle normative in materia di responsabilità sui prodotti, segnaliamo che nel caso di utilizzo delle nostre antenne in condizioni operative particolari, quali ad esempio forti sollecitazioni dinamiche dovute a vento, vibrazioni o deformazioni delle strutture di sostegno, si possono verificare rotture del prodotto stesso e/o la caduta a terra. L'installatore che deve essere altamente qualificato, deve conoscere le normative nazionali di sicurezza in vigore, deve seguire le informazioni contenute nelle nostre istruzioni, deve verificare sempre l'adeguatezza del prodotto stesso alle condizioni operative del sito di installazione e deve controllare l'installazione operando la manutenzione periodica dell'impianto. ---- In relation to the laws concerning product liability, we notify you that in case you use our antennas in severe operative conditions such as, for example, strong wind, vibrations or distortions of the support structure, the product can break and/or fall down. The person who install the product must be skilled, must know the national security law in force, must follow the product instructions, must check that the product is compatible with the installation site and must control the installation with periodical maintenance.

Updating 02/2017

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Antenna type ARO213EPXZ

OMNIDIRECTIONAL BROADBAND ANTENNA

87.5 ÷ 108 MHZ



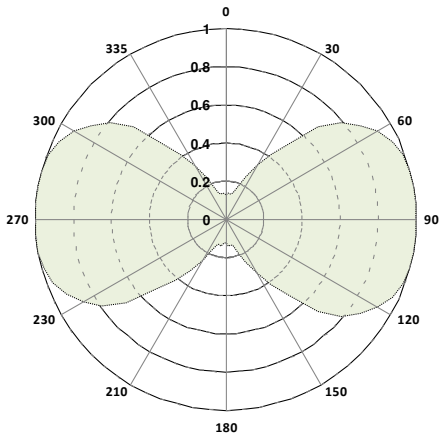
ELECTRICAL DATA		
Frequency range A	MHz	87.5÷108
Bandwidth	MHz	20.5
Gain max .	dBi	2.2
Return loss	dB	87.5-108 Mhz ≥ -12
Return loss	dB	90 - 104 Mhz ≥ -14
Nominal impedance	Ω	50
Polarization	Ω	V
H beamwidth 98 Mhz	-3 dB	360°
E beamwidth 98 Mhz	-3 dB	90°
Max Power	W	500 W
Connector		Nf
Lightning protection		All metal parts are D.C. grounded

MECHANICAL DATA		
Dimension length	mm	750XØ130
Bending Elements	n.	4 x 0÷135°
Weight without clamp	kg	1.9
Wind surface	m²	0.05
Front wind load	Kg	2.1 (25 m/s)
Mounting	mm	Ø 30
umidity filter		

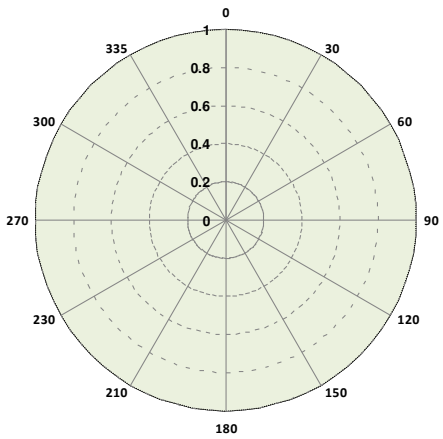
MATERIALS
Anticorodal alluminium - Brass - Teflon
Polyvinyl chloride RoHS compliance IP65 Lanthane VS621

ACCESSORIES		
ST213EI		20X20 mobile mast adapter
BAG213xz		Transport bag

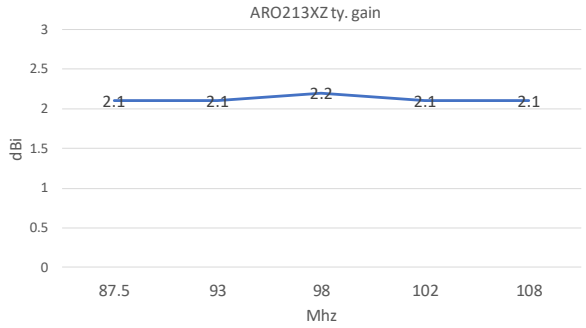
ORDERING AND PACKAGING INFORMATIONS	
ARO213EPXZ	With bending elements **(patent pending mechanism)**
ST213	Ø30 mm pole adapter
PACKAGING mm.	900x150x150 / weight 3 Kg without clamps

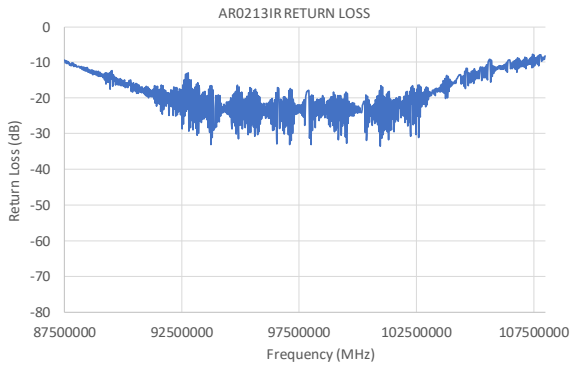


98 Mhz E plane



98 Mhz H plane





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Updating 04/2018

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Antenna type. AR0314XZ DAB

OMNIDIRECTIONAL BROADBAND ANTENNA

174÷240 MHZ





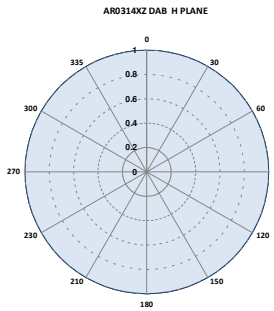
•Antenna omnidirezionale per la banda VHF DAB 174÷ 240 MhZ. Studiata per impieghi fissi e mobili. Costruita di serie con copertura in cloruro di polivinile contro urti ed agenti atmosferici. Tutti gli elementi radianti, sono elettricamente collegati a massa. Per facilitare il trasporto, gli elementi sono ad innesto rapido (AR0314IRXZDAB) o svitabili (AR0314XZDAB). Di serie viene fornito il giunto di fissaggio Ø 30 mm. tra l'antenna ed il palo di sostegno ed il fattore **K** di calibrazione

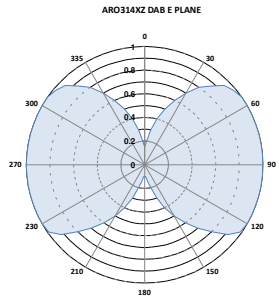
•*Omnidirectional antenna for the VHF DAB band 174÷ 240 Mhz. Studied for mobile and stationary applications. Built with a covering made in polyvinyl chloride against knocks and atmospheric agents. All the radiating elements, are electrically connected to ground. To facilitate transport, the elements are quick-fit (AR0314IRXZDAB) or unscrewable (AR0314XZDAB). Always standard equipment is provided the coupling fixing Ø 30 mm between the antenna and the pole and the calibration factor* ***K***

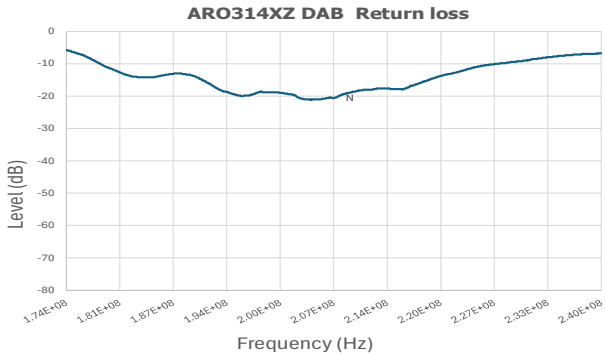
ELECTRICAL DATA		
Frequency range A	MHz	174 ÷ 240
Bandwidth	MHz	70
Gain typ.	dBi	2.2
Return loss	dB	≥-7
Nominal impedance	Ω	50
Polarization		V
E beamwidth typ.	-3 dB	95°
H beamwidth typ.	-3 dB	360°
Max Power	W	500
Connector		N female
Lightning protection	All metal parts are D.C. grounded	
MECHANICAL DATA		
Closed dimensions	mm.	height 400 ø 110
Open dimensions	mm.	Length 600 height 620
Weight	kg	2.3
Ice protection	polyvinyl chloride full radome	
MATERIALS		
Aluminium – Teflon – Brass – Stainless steel		

ACCESSORIES			
CODE	**TYPE**	**DIMEN.**	**WEIGHT**
Supis-03	VTR	40x500	0,9 kg.

ORDERING AND PACKAGING INFORMATIONS	
AR0313XZ DAB	elements with screw fixing
AR0313IRXZDAB	quick-fit elements
PACKAGING cm.	45x150x150 / weight 2.5 Kg without clamp







In relazione alle normative in materia di responsabilità sui prodotti, segnaliamo che nel caso di utilizzo delle nostre antenne in condizioni operative particolari, quali ad esempio forti sollecitazioni dinamiche dovute a vento, vibrazioni o deformazioni delle strutture di sostegno, si possono verificare rotture del prodotto stesso e/o la caduta a terra. L'installatore che deve essere altamente qualificato, deve conoscere le normative nazionali di sicurezza in vigore, deve seguire le informazioni contenute nelle nostre istruzioni, deve verificare sempre l'adeguatezza del prodotto stesso alle condizioni operative del sito di installazione e deve controllare l'installazione operando la manutenzione periodica dell'impianto. ---- In relation to the laws concerning product liability, we notify you that in case you use our antennas in severe operative conditions such as, for example, strong wind, vibrations or distortions of the support structure, the product can break and/or fall down. The person who install the product must be skilled, must know the national security law in force, must follow the product instructions, must check that the product is compatible with the installation site and must control the installation with periodical maintenance.

Updating 05/2024

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Antenna type AR0314IRXZDAB

OMNIDIRECTIONAL BROADBAND ANTENNA

174÷240 MHZ





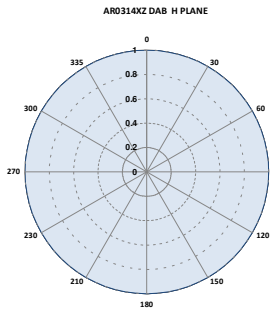
•Antenna omnidirezionale per la banda VHF DAB 174÷ 240 MhZ. Studiata per impieghi fissi e mobili. Costruita di serie con copertura in cloruro di polivinile contro urti ed agenti atmosferici. Tutti gli elementi radianti, sono elettricamente collegati a massa. Per facilitare il trasporto, gli elementi sono ad innesto rapido (AR0314IRXZDAB) o svitabili (AR0314XZDAB). Di serie viene fornito il giunto di fissaggio Ø 30 mm. tra l'antenna ed il palo di sostegno ed il fattore **K** di calibrazione.

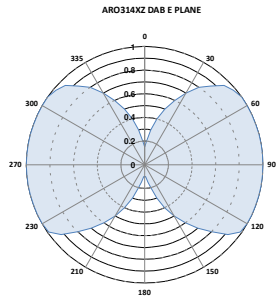
•*Omnidirectional antenna for the VHF DAB band 174÷ 240 Mhz. Studied for mobile and stationary applications. Built with a covering made in polyvinyl chloride against knocks and atmospheric agents. All the radiating elements, are electrically connected to ground. To facilitate transport, the elements are quick-fit (AR0314IRXZDAB) or unscrewable (AR0314XZDAB). Always standard equipment is provided the coupling fixing Ø 30 mm between the antenna and the pole and the calibration factor* ***K.***

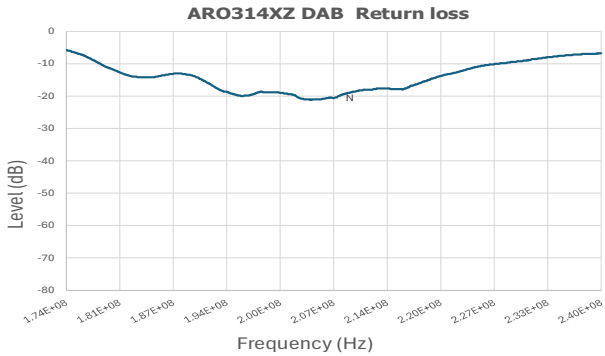
ELECTRICAL DATA		
Frequency range A	MHz	174 ÷ 240
Bandwidth	MHz	70
Gain typ.	dBi	2.2
Return loss	dB	≥-7
Nominal impedance	Ω	50
Polarization		V
E beamwidth typ.	-3 dB	95°
H beamwidth typ.	-3 dB	360°
Max Power	W	500
Connector		N female
Lightning protection	All metal parts are D.C. grounded	
MECHANICAL DATA		
Closed dimensions	mm.	height 400 ø 110
Open dimensions	mm.	Length 600 height 620
Weight	kg	2.3
Ice protection	polyvinyl chloride full radome	
MATERIALS		
Aluminium – Teflon – Brass – Stainless steel		

ACCESSORIES			
CODE	**TYPE**	**DIMEN.**	**WEIGHT**
Supis-03	VTR	40x500	0,9 kg.

ORDERING AND PACKAGING INFORMATIONS	
AR0313XZ DAB	elements with screw fixing
AR0313IRXZDAB	quick-fit elements
PACKAGING cm.	45x150x150 / weight 2.5 Kg without clamp







In relazione alle normative in materia di responsabilità sui prodotti, segnaliamo che nel caso di utilizzo delle nostre antenne in condizioni operative particolari, quali ad esempio forti sollecitazioni dinamiche dovute a vento, vibrazioni o deformazioni delle strutture di sostegno, si possono verificare rotture del prodotto stesso e/o la caduta a terra. L'installatore che deve essere altamente qualificato, deve conoscere le normative nazionali di sicurezza in vigore, deve seguire le informazioni contenute nelle nostre istruzioni, deve verificare sempre l'adeguatezza del prodotto stesso alle condizioni operative del sito di installazione e deve controllare l'installazione operando la manutenzione periodica dell'impianto. ---- In relation to the laws concerning product liability, we notify you that in case you use our antennas in severe operative conditions such as, for example, strong wind, vibrations or distortions of the support structure, the product can break and/or fall down. The person who install the product must be skilled, must know the national security law in force, must follow the product instructions, must check that the product is compatible with the installation site and must control the installation with periodical maintenance.

Updating 05/2024

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Antenna type ARM2.FM

MOBILE OMNIDIRECTIONAL FM ANTENNA

87.5÷108 MHz



- BROADBAND FM ANTENNA
- OMNIDIRECTIONAL PATTERN
- LINEAR POLARIZATION
- INDEPENDENT GROUND PLANE
- HIGHT MECHANICAL PERFORMANCE
- FULL RADOME - D.C. GROUNDED

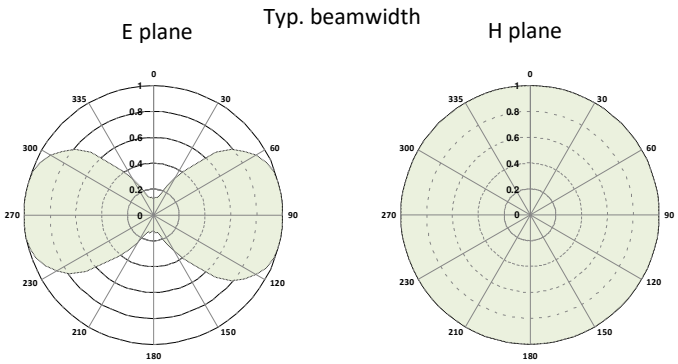
● Antenna omnidirezionale mobile con base magnetica per la banda FM 87.5÷108 MHz. La copertura protettiva in UPVC preserva l'antenna anche da forti e violenti agenti atmosferici. L'antenna è elettricamente a massa per proteggere perfettamente i dispositivi radio ad essa collegati. Il fissaggio rapido è ottenuto tramite tre forti magneti posizionati a 120 ° sotto il disco di riferimento.

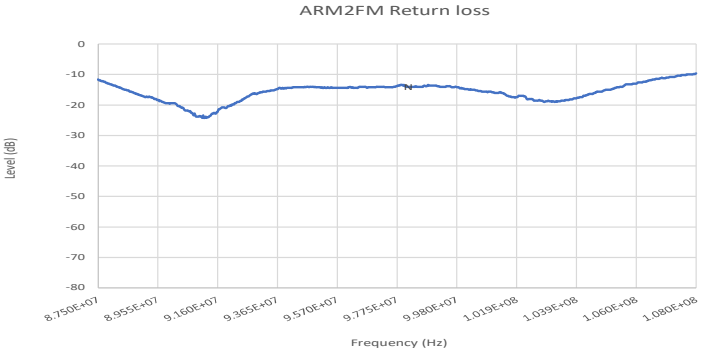
● *Omnidirectional mobile antenna with magnetic base for the FM band 87.5 ÷ 108 MHz. The protective cover in UPVC protects the antenna even from strong and violent atmospheric agents. The antenna is electrically grounded to perfectly protect the radio devices connected to it. Quick fixing is achieved by means of three strong magnets positioned 120 ° below the reference disc.*

● *Antena móvil omnidireccional con base magnética para la banda FM 87,5 ÷ 108 MHz. La cubierta protectora en UPVC protege la antena incluso de agentes atmosféricos fuertes y violentos. La antena está eléctricamente conectada a tierra para proteger perfectamente los dispositivos de radio conectados a ella. La fijación rápida se logra mediante tres potentes imanes colocados 120 ° por debajo del disco de referencia*

● *Antenne mobile omnidirectionnelle avec base magnétique pour la bande FM 87,5 ÷ 108 MHz.Le capot de protection en UPVC protège l'antenne même des agents atmosphériques forts et violents. L'antenne est mise à la terre électriquement pour protéger parfaitement les appareils radio qui y sont connectés. La fixation rapide est obtenue au moyen de trois aimants puissants positionnés à 120° sous le disque de référence*

ELECTRICAL DATA		
Frequency range	MHz	87.5 ÷ 108
Gain max.	dBi	2.2
Return loss max.	dB	≥ -12
VSWR max.		≤ 1.67:1
Nominal impedance	Ω	50
Polarization	Ω	V
H beamwidth typ.	-3 dB	360°
E beamwidth typ.	-3 dB	80°
Max Power	W	500
Connector		N f.
Operating temp.	°C	-20÷70°
Lightning protection	All metal parts are D.C. grounded	
MECHANICAL DATA		
Dimension length	mm	880 x Ø 310 x Ø 100
Weight	kg	4.5
Max. speed of movement	Km/h	110
Mounting	mm	n. 3 magnets 120 ° Ø122
MATERIALS		
Aluminium –Teflon –Polyvinyl chloride -RoHS compliance		
ORDERING AND PACKAGING INFORMATIONS		
packaging	400x400x1000	
ACCESSORIES		
BAG-01	400X900X1300	Polyvinyl chloride suitcase 3 Kg





In relazione alle normative in materia di responsabilità sui prodotti, segnaliamo che nel caso di utilizzo delle nostre antenne in condizioni operative particolari, quali ad esempio forti sollecitazioni dinamiche dovute a vento, vibrazioni o deformazioni delle strutture di sostegno, si possono verificare rotture del prodotto stesso e/o la caduta a terra. L'installatore che deve essere altamente qualificato, deve conoscere le normative nazionali di sicurezza in vigore, deve seguire le informazioni contenute nelle nostre istruzioni, deve verificare sempre l'adeguatezza del prodotto stesso alle condizioni operative del sito di installazione e deve controllare l'installazione operando la manutenzione periodica dell'impianto. --- In relation to the laws concerning product liability, we notify you that in case you use our antennas in severe operative conditions such as, for example, strong wind, vibrations or distortions of the support structure, the product can break and/or fall down. The person who install the product must be skilled, must know the national security law in force, must follow the product instructions, must check that the product is compatible with the installation site and must control the installation with periodical maintenance.

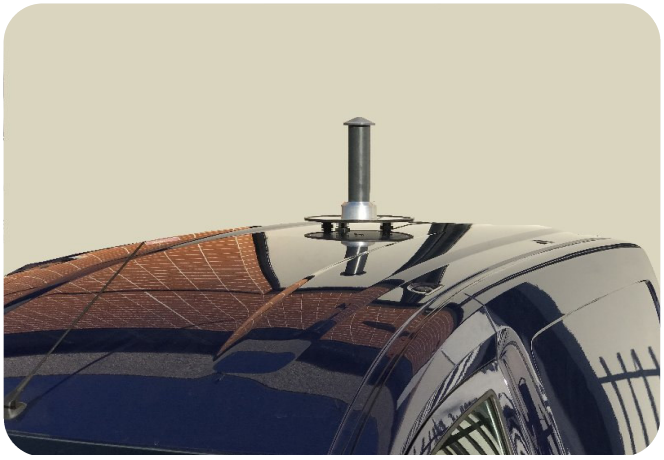
Updating 06/2020

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Antenna type ARM 2 DAB

OMNIDIRECTIONAL ANTENNA FOR DAB MEASUREMENTS ON THE MOVE

174 ÷ 240 MHz



- DAB ANTENNA WITH MAGNETIC BASE
- OMNIDIRECTIONAL PATTERN
- LINEAR POLARIZATION
- INDEPENDENT GROUND PLANE
- HIGHT MECHANICAL PERFORMANCE
- FULL RADOME - D.C. GROUNDED

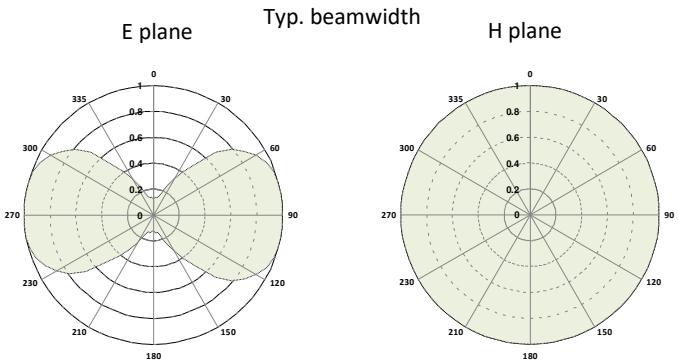
● Antenna omnidirezionale mobile con base magnetica per misure radioelettriche in movimento per le bande digitali terrestri VHF DAB. 174÷240 MHz blocchi 5 A ÷ 13F. La copertura protettiva in UPVC preserva l'antenna anche da forti e violenti agenti atmosferici. L'antenna è elettricamente a massa per proteggere perfettamente i dispositivi radio ad essa collegati. Il fissaggio rapido è ottenuto tramite tre forti magneti posizionati a 120 ° sotto il disco di riferimento.

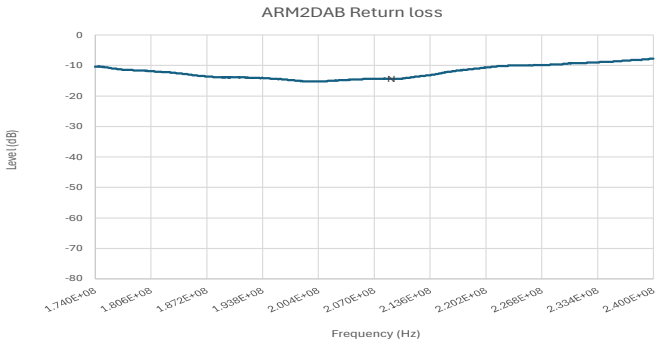
● *Mobile omnidirectional antenna with magnetic base for DAB measurements on the move, for VHF DAB digital terrestrial bands 174÷240 MHz from block 5 A ÷ 13F. The UPVC protective cover protects the antenna even from strong and violent atmospheric agents. The antenna is electrically grounded to perfectly protect the radio devices connected to it. Quick fixing is obtained by means of three strong magnets positioned 120° under the reference disk.*

● *Antena móvil omnidireccional con base magnética para mediciones de radio móvil, para bandas digitales terrestres VHF DAB. Bloques 174÷240 MHz 5A ÷ 13F. La cubierta protectora de UPVC protege la antena incluso de agentes atmosféricos fuertes y violentos. La antena está conectada a tierra para proteger perfectamente los dispositivos de radio conectados a ella. La fijación rápida se obtiene mediante tres imanes fuertes colocados a 120° debajo del disco de referencia.*

● *Antenne mobile omnidirectionnelle avec base magnétique pour mesures radio mobiles, pour bandes numériques terrestres VHF DAB. Blocs 174÷240 MHz 5A ÷ 13F. Le capot de protection UPVC protège l'antenne même des agents atmosphériques forts et violents. L'antenne est mise à la terre pour protéger parfaitement les appareils radio qui y sont connectés. La fixation rapide est obtenue au moyen de trois aimants puissants positionnés à 120° sous le disque de référence.*

ELECTRICAL DATA		
Frequency range	MHz	**174÷240**
DAB block		***5 A ÷ 13 F***
Gain max.	dBi	2.2
Return loss	dB	≥ -10
VSWR		≤ 2.5:1
Nominal impedance	Ω	50
Polarization	Ω	V
H beamwidth typ.	-3 dB	360°
E beamwidth typ.	-3 dB	80°
Max Power	W	500
Connector		N f.
Operating temp.	°C	-20÷70°
Lightning protection	All metal parts are D.C. grounded	
MECHANICAL DATA		
Dimension length	mm	400 x Ø85 ground Ø310
Weight without magnets	kg	2.5
Total Weight	kg	4.1
max vehicle speed	Km/h	120
Mounting	mm	n. 3 magnets 120 ° Ø122
MATERIALS		
Aluminium –Teflon –Polyvinyl chloride -RoHS compliance		
ORDERING AND PACKAGING INFORMATIONS		
packaging	400x400x300	
ACCESSORIES		
BAG-01	920X360X130	Polyvinyl chloride suitcase 3 Kg





In relazione alle normative in materia di responsabilità sui prodotti, segnaliamo che nel caso di utilizzo delle nostre antenne in condizioni operative particolari, quali ad esempio forti sollecitazioni dinamiche dovute a vento, vibrazioni o deformazioni delle strutture di sostegno, si possono verificare rotture del prodotto stesso e/o la caduta a terra. L'installatore che deve essere altamente qualificato, deve conoscere le normative nazionali di sicurezza in vigore, deve seguire le informazioni contenute nelle nostre istruzioni, deve verificare sempre l'adeguatezza del prodotto stesso alle condizioni operative del sito di installazione e deve controllare l'installazione operando la manutenzione periodica dell'impianto. — In relation to the laws concerning product liability, we notify you that in case you use our antennas in severe operative conditions such as, for example, strong wind, vibrations or distortions of the support structure, the product can break and/or fall down. The person who install the product must be skilled, must know the national security law in force, must follow the product instructions, must check that the product is compatible with the installation site and must control the installation with periodical maintenance.

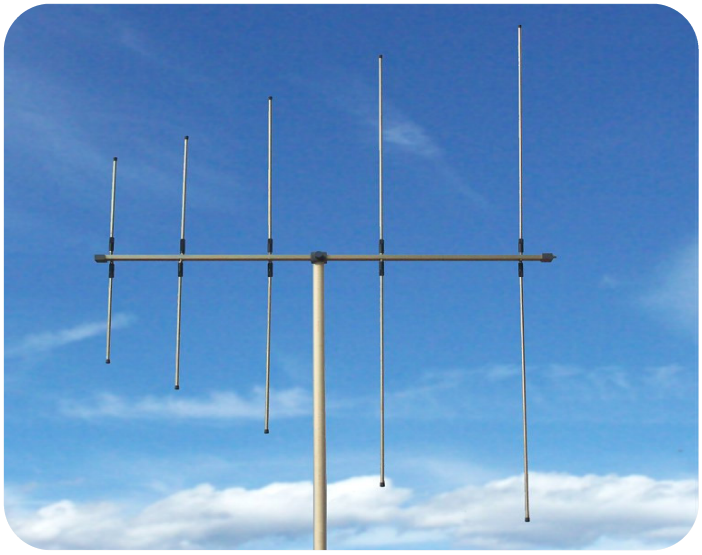
Updating 06/2023

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Antenna type ARL60R/F80XZ

DIRECTIONAL BROADBAND ANTENNA

60 ÷ 80 MHZ



ELECTRICAL DATA		
Frequency range A	MHz	60 ÷ 80
Bandwidth	MHz	20
Gain max .	dBi	7.4
Return loss	dB	≥ -14
VSWR		≤ 1.5:1
Nominal impedance	Ω	50
Polarization	Ω	V/H
H beamwidth 60 Mhz	-3 dB	110°
H beamwidth 70 Mhz	-3 dB	140°
H beamwidth 80 Mhz	-3 dB	120°
E beamwidth 60 Mhz	-3 dB	60°
E beamwidth 70 Mhz	-3 dB	60°
E beamwidth 80 Mhz	-3 dB	60°
Max Power	W	200 W
Connector		Nf
Lightning protection	All metal parts are D.C. grounded	

MECHANICAL DATA		
Dimension length	mm	2520X1700x130
Weight without clamp	kg	5
Elements number		5
Wind surface	m²	Front 0.03 side 0.11
Front wind load	Kg	0.81 (25 m/s)
Side wind load	Kg	3.38 (25 m/s)
Mounting +/- 90°	mm	standard polarizer Ø 30

MATERIALS

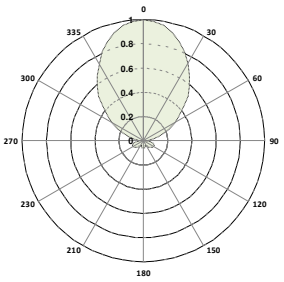
Anticorodal alluminium - Brass - Teflon
- Polyvinyl chloride - RoHS compliance

ACCESSORIES

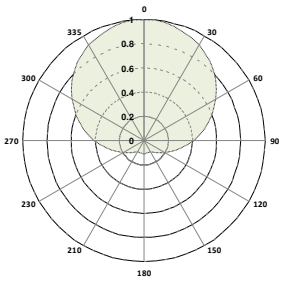
SUPIS01		Isolation fiberglass pole Ø 35 x 1000
BAG6080		Transport bag

ORDERING AND PACKAGING INFORMATIONS

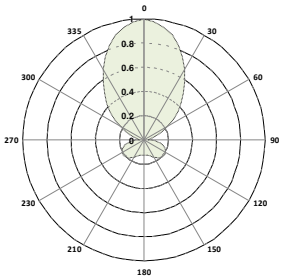
ARL60**F**80XZ	With unscrewed elements
ARL60**R**80XZ	With folding elements
PACKAGING mm.	1850x200x200 / weight 3.8 Kg without clamps



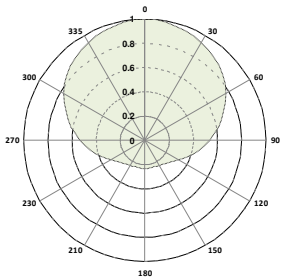
60 Mhz E plane



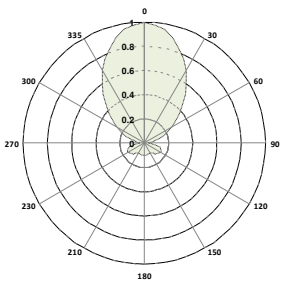
60 Mhz H plane



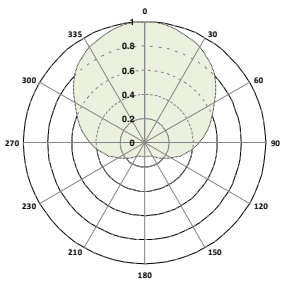
70 Mhz E plane



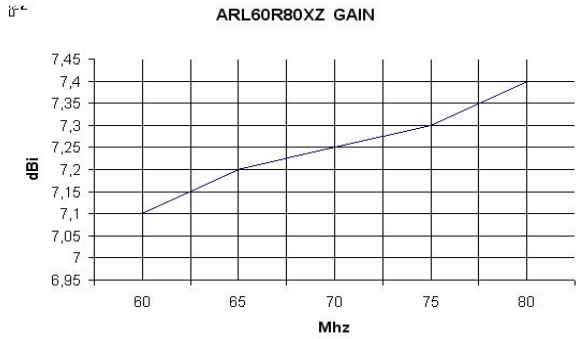
70 Mhz H plane

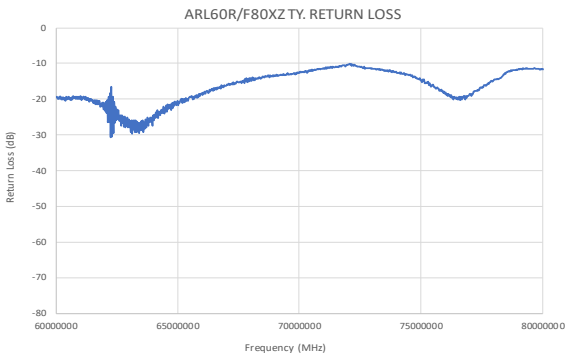


80 Mhz E plane



80 Mhz H plane





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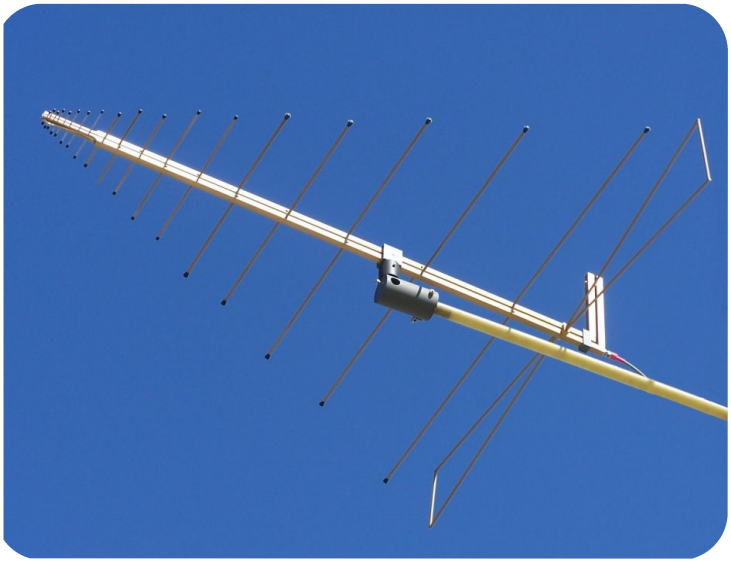
Updating 02/2017

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Antenna type ARL70V2500XZ

DIRECTIONAL BROADBAND ANTENNA

70 ÷ 2500 MHZ



ELECTRICAL DATA		
Frequency range A	MHz	70 ÷ 2500
Bandwidth	MHz	2430
Gain max .	dBi	6.5
Return loss	dB	≥ -11
VSWR		≤ 1.8:1
Nominal impedance	Ω	50
Polarization	Ω	V/H
H beamwidth 70 Mhz	-3 dB	140°
H beamwidth 200 Mhz	-3 dB	125°
E beamwidth2000 Mhz	-3 dB	100°
E beamwidth 70 Mhz	-3 dB	90°
E beamwidth 200 Mhz	-3 dB	70°
E beamwidth2000 Mhz	-3 dB	90°
Max Power	W	200 W
Connector		Nf
Lightning protection	All metal parts are D.C. grounded	

MECHANICAL DATA		
Dimension length	mm	1750(mast)X1800x120
Elements numbers		19
Weight without clamp	kg	4.9
Wind surface	m²	Front 0.03 side 0.17
Front wind load	Kg	1.1 (25 m/s)
Side wind load	Kg	6.5 (25 m/s)
Mounting +/- 90°	mm	standard polarizer Ø 30

MATERIALS

Anticorodal alluminium - Brass - Teflon

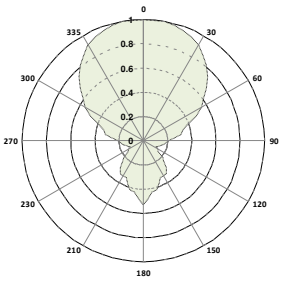
- Polyvinyl chloride - RoHS compliance

ACCESSORIES

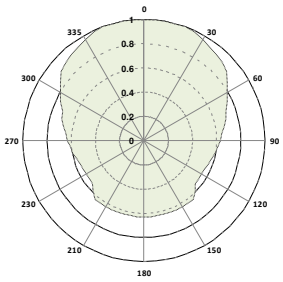
SUPIS01		Isolation fiberglass pole Ø 35x1000
BAG702500		Transport bag

ORDERING AND PACKAGING INFORMATIONS

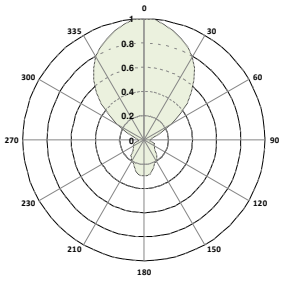
PACKAGING mm.	1850x200x200 / weight 5.5 Kg without clamps



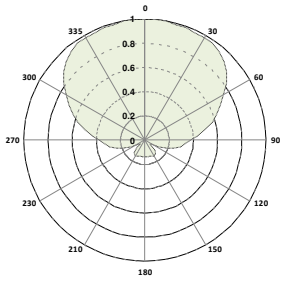
70 Mhz E plane



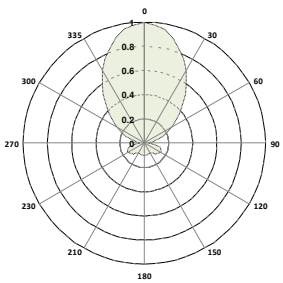
70 Mhz H plane



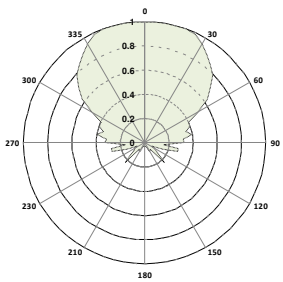
200 Mhz E plane



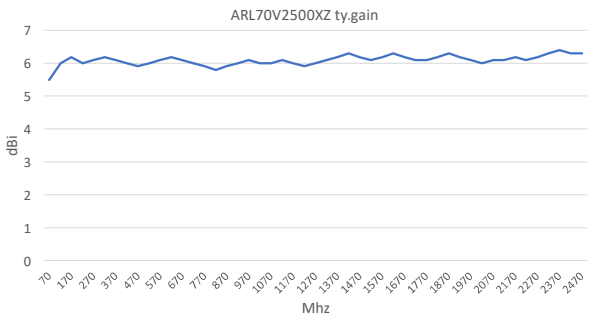
200 Mhz H plane

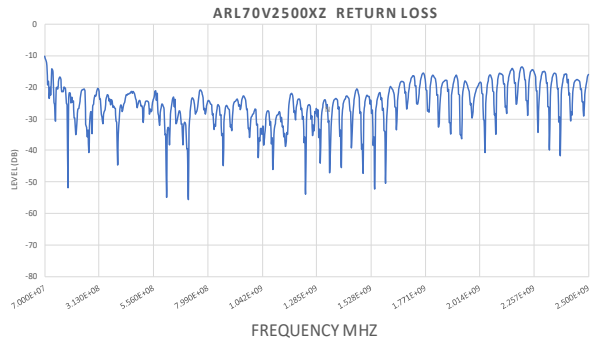


2000 Mhz E plane



2000 Mhz H plane





In relazione alle normative in materia di responsabilità sui prodotti, segnaliamo che nel caso di utilizzo delle nostre antenne in condizioni operative particolari, quali ad esempio forti sollecitazioni dinamiche dovute a vento, vibrazioni o deformazioni delle strutture di sostegno, si possono verificare rotture del prodotto stesso e/o la caduta a terra. L'installatore che deve essere altamente qualificato, deve conoscere le normative nazionali di sicurezza in vigore, deve seguire le informazioni contenute nelle nostre istruzioni, deve verificare sempre l'adeguatezza del prodotto stesso alle condizioni operative del sito di installazione e deve controllare l'installazione operando la manutenzione periodica dell'impianto. ---- In relation to the laws concerning product liability, we notify you that in case you use our antennas in severe operative conditions such as, for example, strong wind, vibrations or distortions of the support structure, the product can break and/or fall down. The person who install the product must be skilled, must know the national security law in force, must follow the product instructions, must check that the product is compatible with the installation site and must control the installation with periodical maintenance.

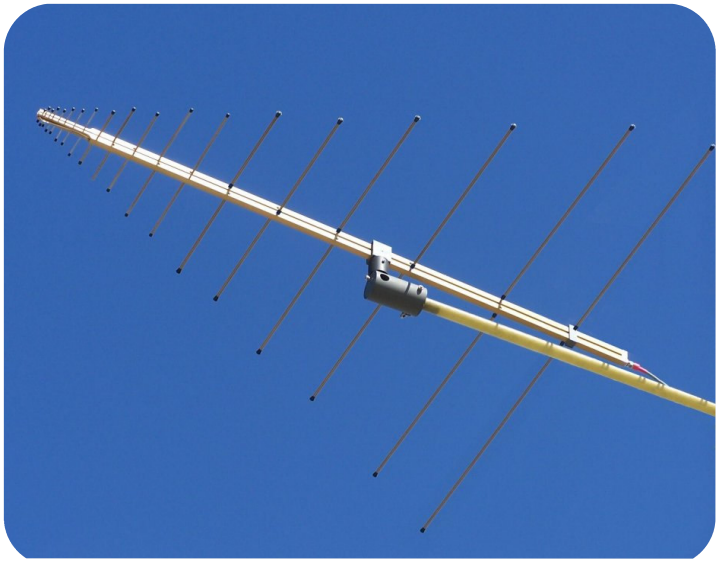
Updating 02/2017

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Antenna type ARL70R/F2500XZ

DIRECTIONAL BROADBAND ANTENNA

70 ÷ 2500 MHZ



ELECTRICAL DATA		
Frequency range A	MHz	70 ÷ 2500
Bandwidth	MHz	2430
Gain max .	dBi	6.5
Return loss	dB	≥ -11
VSWR		≤ 1.8:1
Nominal impedance	Ω	50
Polarization	Ω	V/H
H beamwidth 70 Mhz	-3 dB	140°
H beamwidth 200 Mhz	-3 dB	125°
E beamwidth2000 Mhz	-3 dB	100°
E beamwidth 70 Mhz	-3 dB	90°
E beamwidth 200 Mhz	-3 dB	70°
E beamwidth2000 Mhz	-3 dB	90°
Max Power	W	200 W
Connector		Nf
Lightning protection	All metal parts are D.C. grounded	

MECHANICAL DATA		
Dimension length	mm	2015(mast)X1940x120
Elements numbers		19
Weight without clamp	kg	4.9
Wind surface	m²	Front 0.03 side 0.17
Front wind load	Kg	1.1 (25 m/s)
Side wind load	Kg	6.5 (25 m/s)
Mounting +/- 90°	mm	standard polarizer Ø 30

MATERIALS

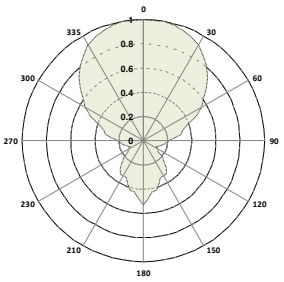
Anticorodal alluminium - Brass - Teflon
- Polyvinyl chloride - RoHS compliance

ACCESSORIES

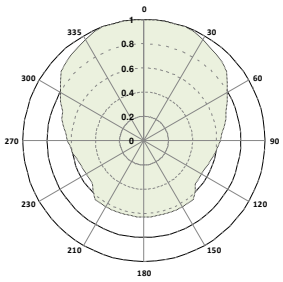
SUPIS01		Isolation fiberglass pole Ø 35x1000
BAG702500		Transport bag

ORDERING AND PACKAGING INFORMATIONS

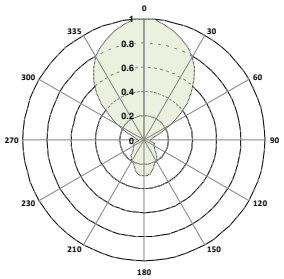
ARL70F2500XZ	With unscrewed elements
ARL70R2500XZ	With folding elements
PACKAGING mm.	2200x200x200 / weight 5.5 Kg without clamps



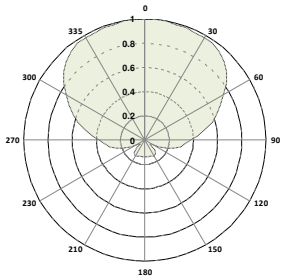
70 Mhz E plane



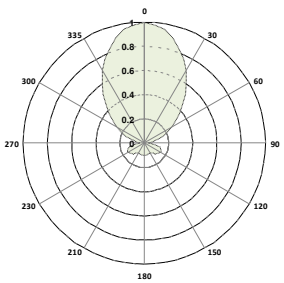
70 Mhz H plane



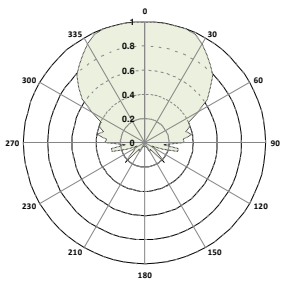
200 Mhz E plane



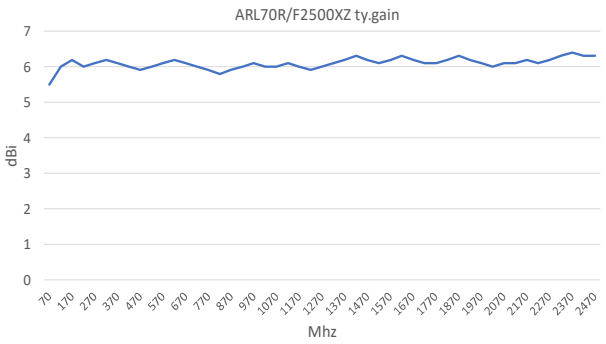
200 Mhz H plane

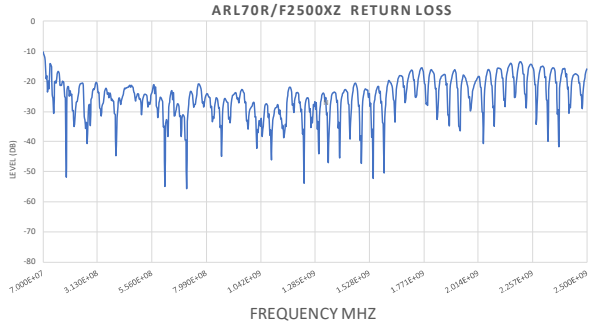


2000 Mhz E plane



2000 Mhz H plane





In relazione alle normative in materia di responsabilità sui prodotti, segnaliamo che nel caso di utilizzo delle nostre antenne in condizioni operative particolari, quali ad esempio forti sollecitazioni dinamiche dovute a vento, vibrazioni o deformazioni delle strutture di sostegno, si possono verificare rotture del prodotto stesso e/o la caduta a terra. L'installatore che deve essere altamente qualificato, deve conoscere le normative nazionali di sicurezza in vigore, deve seguire le informazioni contenute nelle nostre istruzioni, deve verificare sempre l'adeguatezza del prodotto stesso alle condizioni operative del sito di installazione e deve controllare l'installazione operando la manutenzione periodica dell'impianto. — In relation to the laws concerning product liability, we notify you that in case you use our antennas in severe operative conditions such as, for example, strong wind, vibrations or distortions of the support structure, the product can break and/or fall down. The person who install the product must be skilled, must know the national security law in force, must follow the product instructions, must check that the product is compatible with the installation site and must control the installation with periodical maintenance.

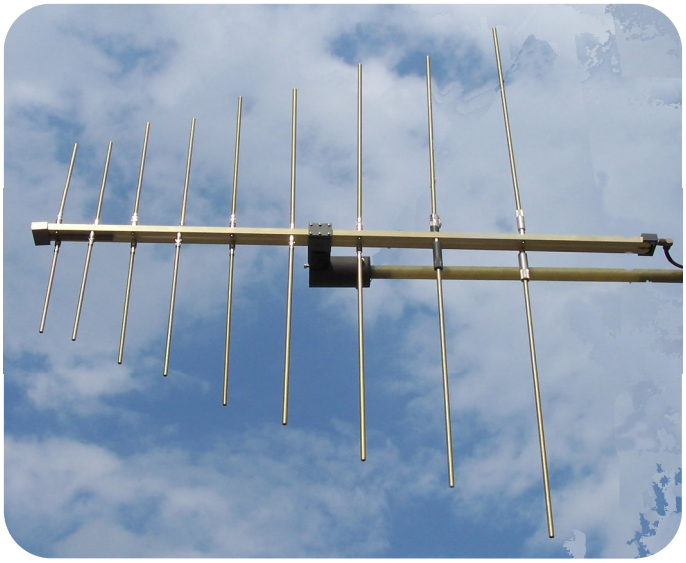
Updating 02/2017

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Antenna type ARL80R/F150XZ

DIRECTIONAL BROADBAND ANTENNA

80 ÷ 150 MHZ



ELECTRICAL DATA		
Frequency range A	MHz	80 ÷ 150
Bandwidth	MHz	70
Gain max .	dBi	8.8
Return loss	dB	≥ -12
VSWR		≤ 1.7:1
Nominal impedance	Ω	50
Polarization	Ω	V/H
H beamwidth 88 Mhz	-3 dB	110°
H beamwidth 110 Mhz	-3 dB	100°
E beamwidth 140Mhz	-3 dB	110°
E beamwidth 88 Mhz	-3 dB	60°
E beamwidth 110 Mhz	-3 dB	60°
E beamwidth 140 Mhz	-3 dB	70°
Max Power	W	200 W
Connector		Nf
Lightning protection	All metal parts are D.C. grounded	

MECHANICAL DATA		
Dimension length	mm	length1580X h1850x130
Elements numbers		9
Weight without clamp	kg	4.8
Wind surface	m²	Front 0.03 side 0.17
Front wind load	Kg	1.1 (25 m/s)
Side wind load	Kg	6.5 (25 m/s)
Mounting +/- 90°	mm	standard polarizer Ø 30

MATERIALS

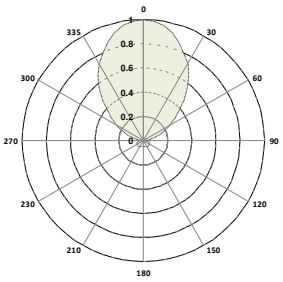
Anticorodal alluminium - Brass - Teflon
- Polyvinyl chloride - RoHS compliance

ACCESSORIES

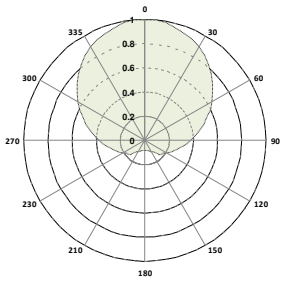
SUPIS01		Isolation fiberglass pole Ø 35 x 1000
BAG80150		Transport bag

ORDERING AND PACKAGING INFORMATIONS

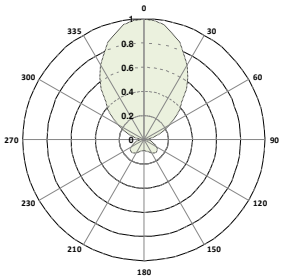
ARL80F150XZ	With unscrewed elements
ARL80R150XZ	With folding elements
PACKAGING mm.	1600x200x200 / weight 6 Kg without clamps



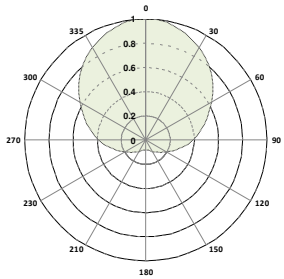
88 Mhz E plane



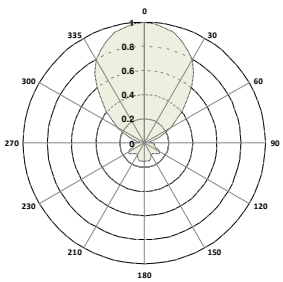
88 Mhz H plane



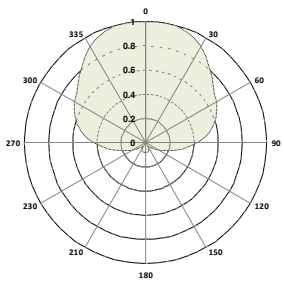
110 Mhz E plane



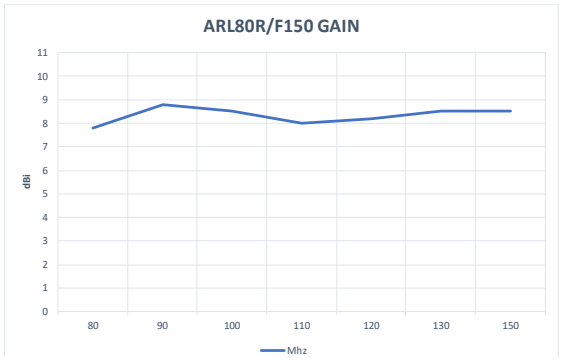
110 Mhz H plane

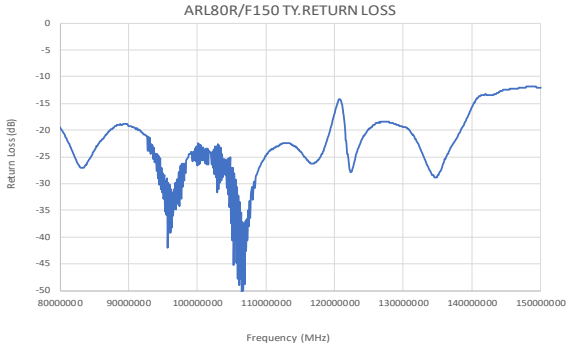


140 Mhz E plane



140 Mhz H plane





In relazione alle normative in materia di responsabilità sui prodotti, segnaliamo che nel caso di utilizzo delle nostre antenne in condizioni operative particolari, quali ad esempio forti sollecitazioni dinamiche dovute a vento, vibrazioni o deformazioni delle strutture di sostegno, si possono verificare rotture del prodotto stesso e/o la caduta a terra. L'installatore che deve essere altamente qualificato, deve conoscere le normative nazionali di sicurezza in vigore, deve seguire le informazioni contenute nelle nostre istruzioni, deve verificare sempre l'adeguatezza del prodotto stesso alle condizioni operative del sito di installazione e deve controllare l'installazione operando la manutenzione periodica dell'impianto. ---- In relation to the laws concerning product liability, we notify you that in case you use our antennas in severe operative conditions such as, for example, strong wind, vibrations or distortions of the support structure, the product can break and/or fall down. The person who install the product must be skilled, must know the national security law in force, must follow the product instructions, must check that the product is compatible with the installation site and must control the installation with periodical maintenance.

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Antenna type ARL80R/F1500XZ

DIRECTIONAL BROADBAND ANTENNA

80 ÷ 1500 MHZ



ELECTRICAL DATA		
Frequency range A	MHz	80÷1500
Bandwidth	MHz	1420
Gain max .	dBi	8.5
Return loss	dB	≥ -11
VSWR		≤ 1.8:1
Nominal impedance	Ω	50
Polarization	Ω	V/H
H beamwidth 100 Mhz	-3 dB	120°
H beamwidth 400 Mhz	-3 dB	120°
H beamwidth1200Mhz	-3 dB	90°
E beamwidth 100 Mhz	-3 dB	60°
E beamwidth 400 Mhz	-3 dB	70°
E beamwidth1200 Mhz	-3 dB	90°
Max Power	W	200 W
Connector		Nf
Lightning protection	All metal parts are D.C. grounded	

MECHANICAL DATA		
Dimension length	mm	1480Xh1730x130
Elements numbers		21
Weight without clamp	kg	4.5
Wind surface	m²	Front 0.03 side 0.13
Front wind load	Kg	1.1 (25 m/s)
Side wind load	Kg	4.9 (25 m/s)
Mounting	mm	standard polarizer Ø 30

MATERIALS

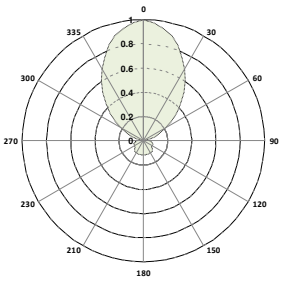
Anticorodal alluminium - Brass - Teflon
- Polyvinyl chloride - RoHS compliance

ACCESSORIES

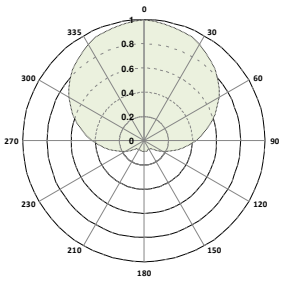
SUPIS01		Isolation fiberglass pole Ø 35x1000
BAG801500		Transport bag

ORDERING AND PACKAGING INFORMATIONS

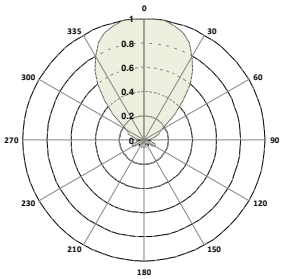
ARL80F1500XZ	With unscrewed elements
ARL80R1500XZ	With folding elements
PACKAGING mm.	1500x200x200 / weight 5 Kg without clamps



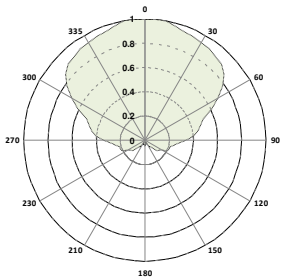
100 Mhz E plane



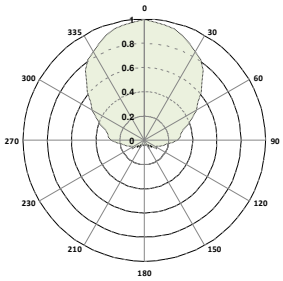
100 Mhz H plane



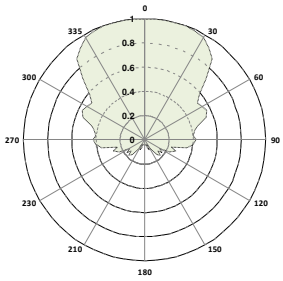
400 Mhz E plane



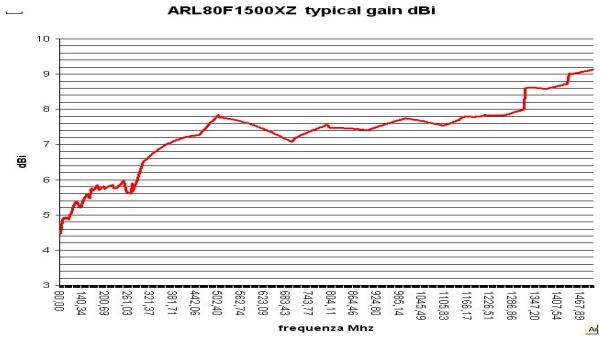
400 Mhz H plane

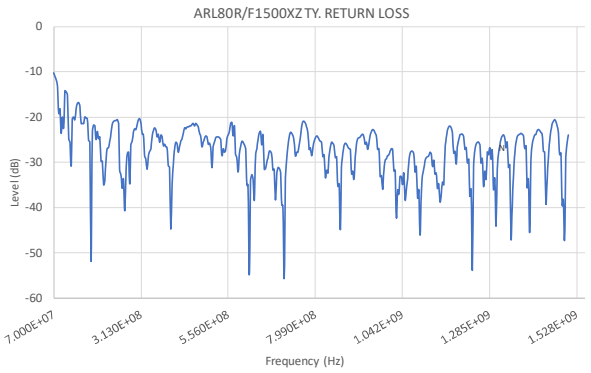


1200 Mhz E plane



1200 Mhz H plane





In relazione alle normative in materia di responsabilità sui prodotti, segnaliamo che nel caso di utilizzo delle nostre antenne in condizioni operative particolari, quali ad esempio forti sollecitazioni dinamiche dovute a vento, vibrazioni o deformazioni delle strutture di sostegno, si possono verificare rotture del prodotto stesso e/o la caduta a terra. L'installatore che deve essere altamente qualificato, deve conoscere le normative nazionali di sicurezza in vigore, deve seguire le informazioni contenute nelle nostre istruzioni, deve verificare sempre l'adeguatezza del prodotto stesso alle condizioni operative del sito di installazione e deve controllare l'installazione operando la manutenzione periodica dell'impianto. ---- In relation to the laws concerning product liability, we notify you that in case you use our antennas in severe operative conditions such as, for example, strong wind, vibrations or distortions of the support structure, the product can break and/or fall down. The person who install the product must be skilled, must know the national security law in force, must follow the product instructions, must check that the product is compatible with the installation site and must control the installation with periodical maintenance.

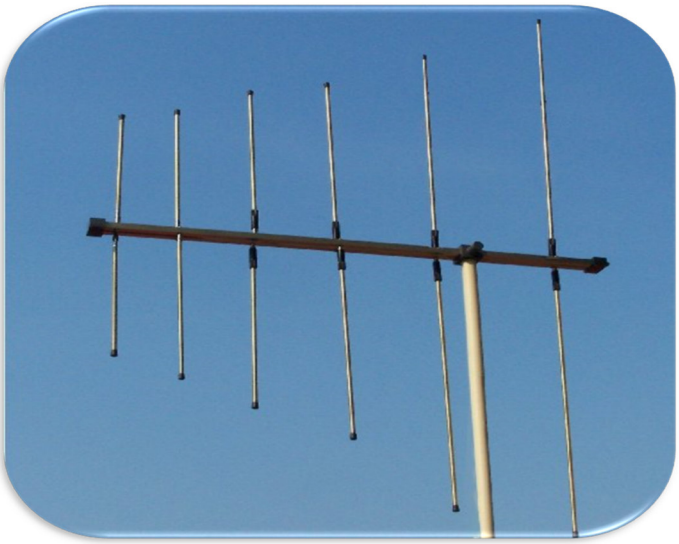
Updating 02/2017

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Antenna type ARL87R/F108XZ

DIRECTIONAL BROADBAND ANTENNA

87.5 ÷ 108 MHZ



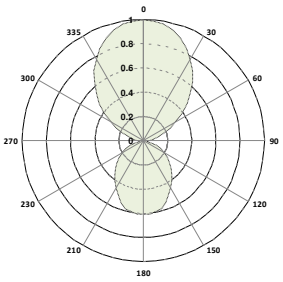
ELECTRICAL DATA		
Frequency range A	MHz	87,5÷108
Bandwidth	MHz	20.5
Gain max .	dBi	7.5
Return loss	dB	≥ -14
VSWR		≤ 1.5:1
Nominal impedance	Ω	50
Polarization	Ω	V/H
H beamwidth 88 Mhz	-3 dB	140°
H beamwidth 98 Mhz	-3 dB	120°
H beamwidth 103 Mhz	-3 dB	120°
E beamwidth 88 Mhz	-3 dB	70°
E beamwidth 98 Mhz	-3 dB	80°
E beamwidth 103 Mhz	-3 dB	70°
Max Power	W	300 W
Connector		Nf
Lightning protection	All metal parts are D.C. grounded	

MECHANICAL DATA		
Dimension length	mm	length1420Xh1760x130
Elements numbers		6
Weight without clamp	kg	3.7
Wind surface	m²	Front 0.03 side 0.13
Front wind load	Kg	1.1 (25 m/s)
Side wind load	Kg	4.9 (25 m/s)
Mounting +/- 90°	mm	standard polarizer Ø 30

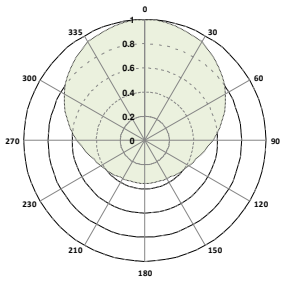
MATERIALS
Anticorodal alluminium - Brass - Teflon
- Polyvinyl chloride - RoHS compliance

ACCESSORIES		
SUPIS01		Isolation fiberglass pole Ø35 x 1000
BAG87108		Transport bag

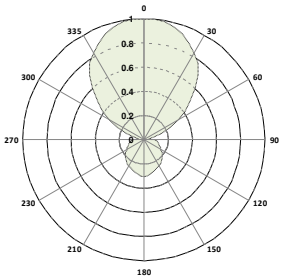
ORDERING AND PACKAGING INFORMATIONS	
ARL87**F**108XZ	With unscrewed elements
ARL87**R**108XZ	With folding elements
PACKAGING mm.	1500x200x200 / weight 5 Kg without clamps



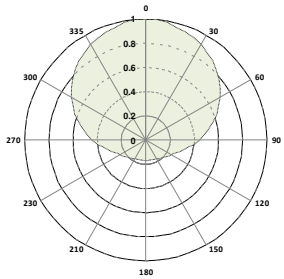
88 Mhz E plane



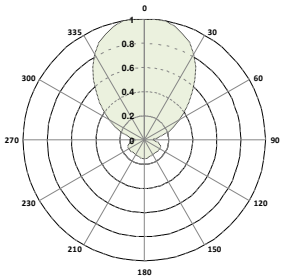
88 Mhz H plane



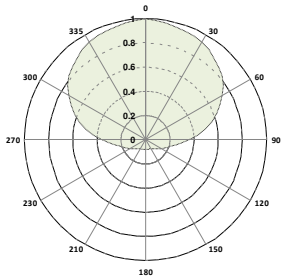
98 Mhz E plane



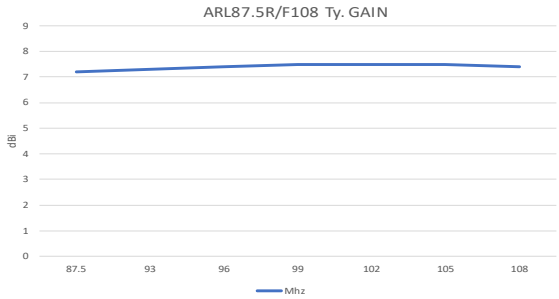
98 Mhz H plane

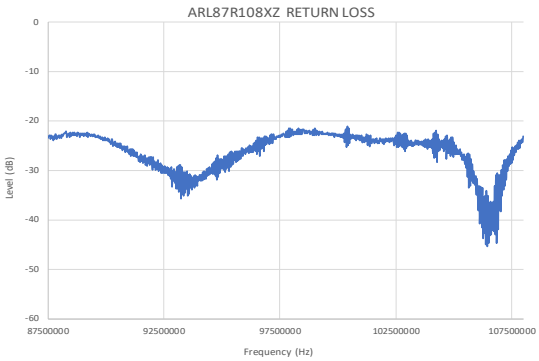


103 Mhz E plane



103 Mhz H plane





In relazione alle normative in materia di responsabilità sui prodotti, segnaliamo che nel caso di utilizzo delle nostre antenne in condizioni operative particolari, quali ad esempio forti sollecitazioni dinamiche dovute a vento, vibrazioni o deformazioni delle strutture di sostegno, si possono verificare rotture del prodotto stesso e/o la caduta a terra. L'installatore che deve essere altamente qualificato, deve conoscere le normative nazionali di sicurezza in vigore, deve seguire le informazioni contenute nelle nostre istruzioni, deve verificare sempre l'adeguatezza del prodotto stesso alle condizioni operative del sito di installazione e deve controllare l'installazione operando la manutenzione periodica dell'impianto. ---- In relation to the laws concerning product liability, we notify you that in case you use our antennas in severe operative conditions such as, for example, strong wind, vibrations or distortions of the support structure, the product can break and/or fall down. The person who install the product must be skilled, must know the national security law in force, must follow the product instructions, must check that the product is compatible with the installation site and must control the installation with periodical maintenance.

Updating 02/2017

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Antenna type ARL108R/F170XZ

DIRECTIONAL BROADBAND ANTENNA

108 ÷ 170 MHZ



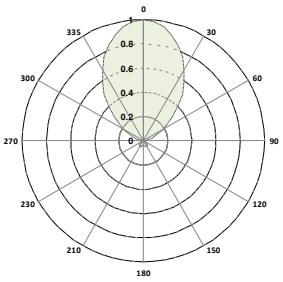
ELECTRICAL DATA		
Frequency range A	MHz	108÷170
Bandwidth	MHz	62
Gain max .	dBi	9.5
Return loss	dB	≥ -14
VSWR		≤ 1.5:1
Nominal impedance	Ω	50
Polarization	Ω	V/H
H beamwidth 108 Mhz	-3 dB	90°
H beamwidth 140 Mhz	-3 dB	80°
H beamwidth 170Mhz	-3 dB	80°
E beamwidth 108 Mhz	-3 dB	60°
E beamwidth 140 Mhz	-3 dB	50°
E beamwidth 170 Mhz	-3 dB	80°
Max Power	W	200 W
Connector		Nf
Lightning protection	All metal parts are D.C. grounded	

MECHANICAL DATA		
Dimension length	mm	1733Xh1384x130
Elements numbers		9
Weight without clamp	kg	3.9
Wind surface	m²	Front 0.03 side 0.17
Front wind load	Kg	1.1 (25 m/s)
Side wind load	Kg	4.7 (25 m/s)
Mounting +/- 90°	mm	standard polarizer Ø 30

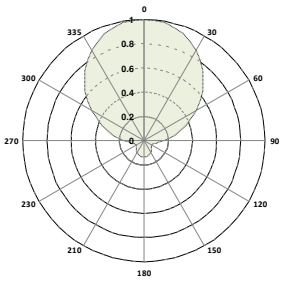
MATERIALS
Anticorodal alluminium - Brass - Teflon
- Polyvinyl chloride - RoHS compliance

ACCESSORIES		
SUPIS01		Isolation fiberglass pole Ø35 x 1000
BAG108170		Transport bag

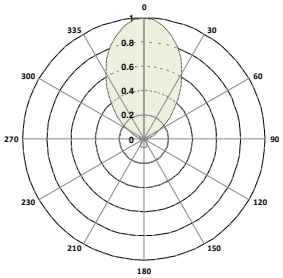
ORDERING AND PACKAGING INFORMATIONS	
ARL108**F**170XZ	With unscrewed elements
ARL108**R**170XZ	With folding elements
PACKAGING mm.	1800x200x200 / weight 5 Kg without clamps



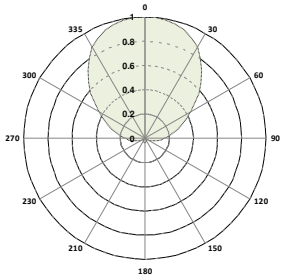
108 Mhz E plane



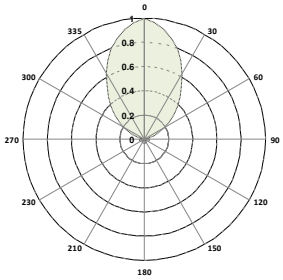
108 Mhz H plane



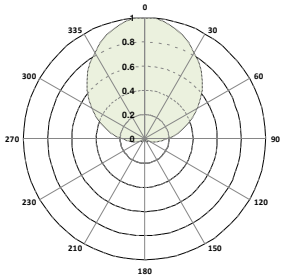
140 Mhz E plane



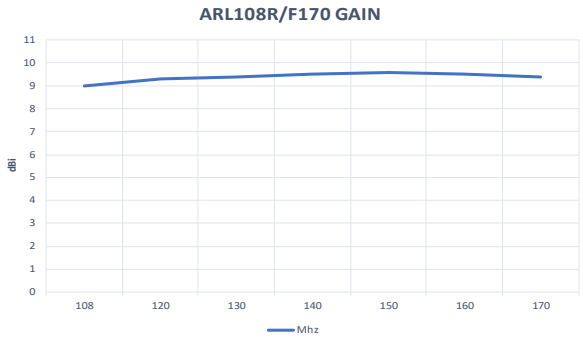
140 Mhz H plane



170 Mhz E plane



170Mhz H plane





In relazione alle normative in materia di responsabilità sui prodotti, segnaliamo che nel caso di utilizzo delle nostre antenne in condizioni operative particolari, quali ad esempio forti sollecitazioni dinamiche dovute a vento, vibrazioni o deformazioni delle strutture di sostegno, si possono verificare rotture del prodotto stesso e/o la caduta a terra. L'installatore che deve essere altamente qualificato, deve conoscere le normative nazionali di sicurezza in vigore, deve seguire le informazioni contenute nelle nostre istruzioni, deve verificare sempre l'adeguatezza del prodotto stesso alle condizioni operative del sito di installazione e deve controllare l'installazione operando la manutenzione periodica dell'impianto. ---- In relation to the laws concerning product liability, we notify you that in case you use our antennas in severe operative conditions such as, for example, strong wind, vibrations or distortions of the support structure, the product can break and/or fall down. The person who install the product must be skilled, must know the national security law in force, must follow the product instructions, must check that the product is compatible with the installation site and must control the installation with periodical maintenance.

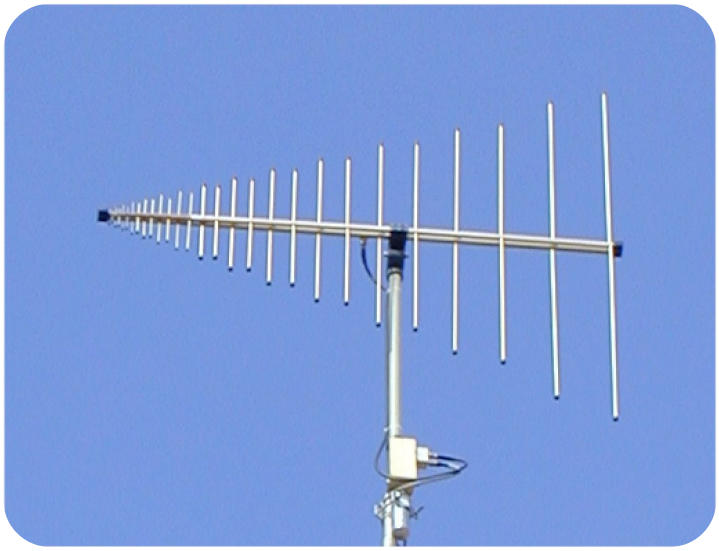
Updating 02/2017

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Antenna type ARL100R/F500XZ

DIRECTIONAL BROADBAND ANTENNA

100 ÷ 500 MHZ



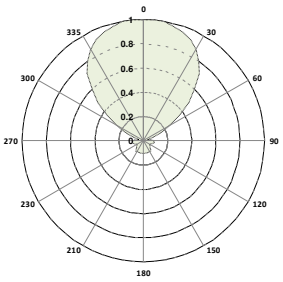
ELECTRICAL DATA		
Frequency range A	MHz	100÷500
Bandwidth	MHz	400
Gain max .	dBi	7
Return loss max	dB	≥ -10
VSWR max		≤ 1.9:1
Nominal impedance	Ω	50
Polarization	Ω	V/H
H beamwidth 400 Mhz	-3 dB	100°
H beamwidth 250 Mhz	-3 dB	110°
H beamwidth 150 Mhz	-3 dB	110°
E beamwidth 400 Mhz	-3 dB	70°
E beamwidth 250 Mhz	-3 dB	60°
E beamwidth 150 Mhz	-3 dB	80°
Max Power (peak power)	W	100 W (500)
Connector		Nf
Lightning protection	All metal parts are D.C. grounded	

MECHANICAL DATA		
Dimension length	mm	1700Xh1600x130
Elements numbers		18
Weight	kg	6.2
Wind surface	m²	Front 0.02 side 0.12
Front wind load	Kg	0.8 (25 m/s)
Side wind load	Kg	4.1 (25 m/s)
Mounting +/- 90°	mm	mechanical polarizer Ø 30

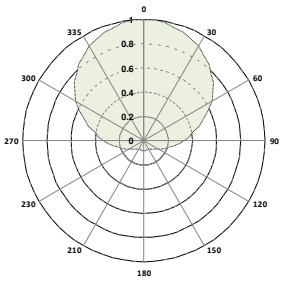
MATERIALS
Anticorodal alluminium - Brass - Teflon
- Polyvinyl chloride - RoHS compliance-

ACCESSORIES		
BAG100F500		Transport bag

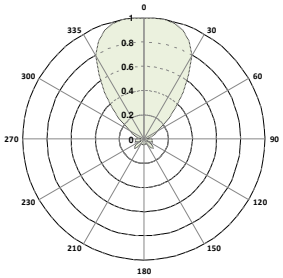
ORDERING AND PACKAGING INFORMATIONS	
ARL100**F**500XZ	With unscrewed elements
ARL100**R**500XZ	With folding elements
PACKAGING mm.	1800x400x400 / weight 9 Kg



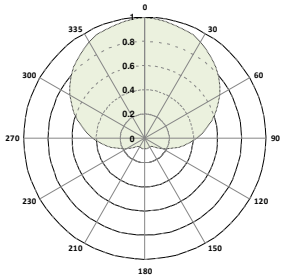
150 Mhz E plane



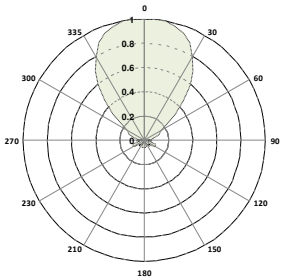
150 Mhz H plane



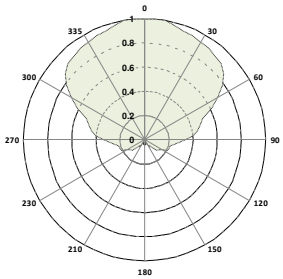
250 Mhz E plane



250 Mhz H plane

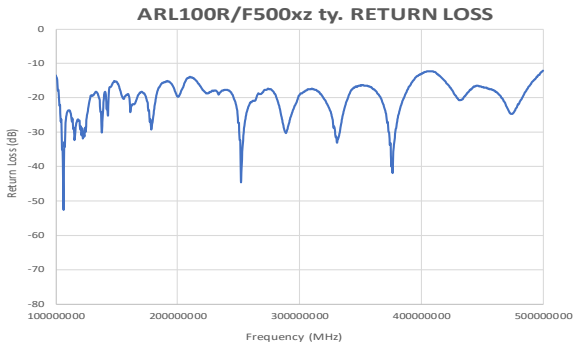


400 Mhz E plane



400Mhz H plane





In relazione alle normative in materia di responsabilità sui prodotti, segnaliamo che nel caso di utilizzo delle nostre antenne in condizioni operative particolari, quali ad esempio forti sollecitazioni dinamiche dovute a vento, vibrazioni o deformazioni delle strutture di sostegno, si possono verificare rotture del prodotto stesso e/o la caduta a terra. L'installatore che deve essere altamente qualificato, deve conoscere le normative nazionali di sicurezza in vigore, deve seguire le informazioni contenute nelle nostre istruzioni, deve verificare sempre l'adeguatezza del prodotto stesso alle condizioni operative del sito di installazione e deve controllare l'installazione operando la manutenzione periodica dell'impianto. ---- In relation to the laws concerning product liability, we notify you that in case you use our antennas in severe operative conditions such as, for example, strong wind, vibrations or distortions of the support structure, the product can break and/or fall down. The person who install the product must be skilled, must know the national security law in force, must follow the product instructions, must check that the product is compatible with the installation site and must control the installation with periodical maintenance.

Updating 06/2018

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Antenna type ARL150R/F1300XZ

DIRECTIONAL BROADBAND ANTENNA

150 ÷ 1300 MHZ



ELECTRICAL DATA		
Frequency range A	MHz	150÷1300
Bandwidth	MHz	1150
Gain max .	dBi	9
Return loss	dB	≥ -11
VSWR		≤ 1.8:1
Nominal impedance	Ω	50
Polarization	Ω	V/H
H beamwidth 150 Mhz	-3 dB	100°
H beamwidth 400 Mhz	-3 dB	70°
H beamwidth1000Mhz	-3 dB	70°
E beamwidth 150 Mhz	-3 dB	60°
E beamwidth 400 Mhz	-3 dB	50°
E beamwidth1000 Mhz	-3 dB	45°
Max Power	W	200 W
Connector		Nf
Lightning protection	All metal parts are D.C. grounded	

MECHANICAL DATA		
Dimension length	mm	1490Xh1100x130
Elements numbers		23
Weight without clamp	kg	3.3
Wind surface	m²	Front 0.02 side 0.13
Front wind load	Kg	0.8 (25 m/s)
Side wind load	Kg	4.9 (25 m/s)
Mounting +/- 90°	mm	standard polarizer Ø 30

MATERIALS

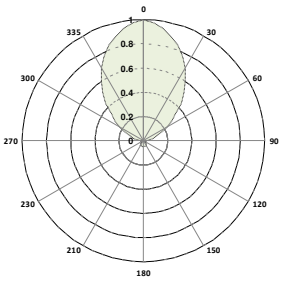
Anticorodal alluminium - Brass - Teflon
- Polyvinyl chloride - RoHS compliance

ACCESSORIES

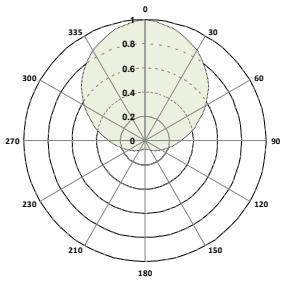
SUPIS01		Isolation fiberglass pole Ø 35 x 1000
BAG1501300		Transport bag

ORDERING AND PACKAGING INFORMATIONS

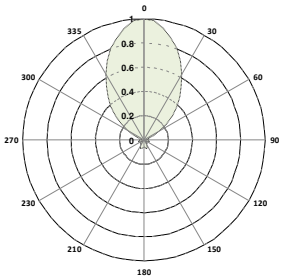
ARL150F1300XZ	With unscrewed elements
ARL150R1300XZ	With folding elements
PACKAGING mm.	1500x200x200 / weight 4.5 Kg without clamps



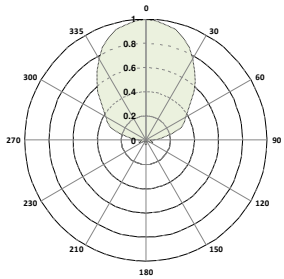
150 Mhz E plane



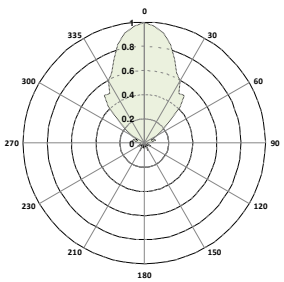
150 Mhz H plane



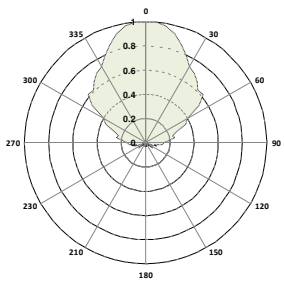
400 Mhz E plane



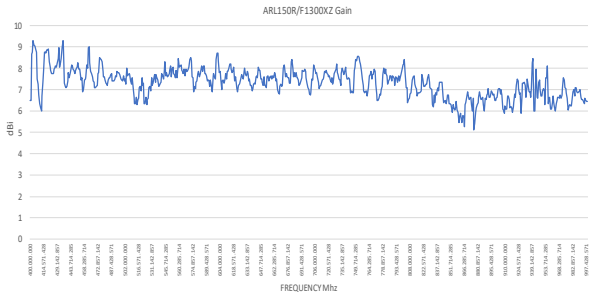
400 Mhz H plane



1000 Mhz E plane



1000 Mhz H plane





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Updating 02/2017

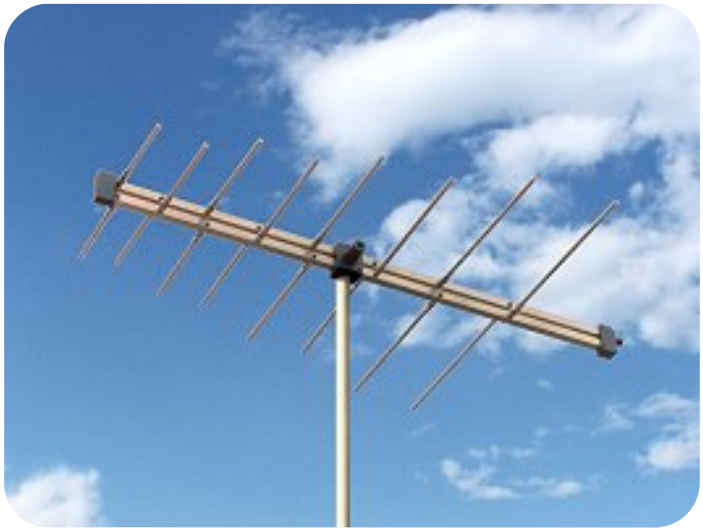
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Antenna type ARL170R/F250XZ

DIRECTIONAL BROADBAND ANTENNA

DAB 170 ÷ 250 MHZ



ELECTRICAL DATA		
Frequency range A	MHz	170 ÷ 250
Bandwidth	MHz	80
Gain max .	dBi	9.5
Return loss	dB	≥ -14
VSWR		≤ 1.5:1
Nominal impedance	Ω	50
Polarization	Ω	V/H
H beamwidth 170 Mhz	-3 dB	100°
H beamwidth 200 Mhz	-3 dB	80°
H beamwidth 230 Mhz	-3 dB	90°
E beamwidth 170 Mhz	-3 dB	60°
E beamwidth 200 Mhz	-3 dB	55°
E beamwidth 230 Mhz	-3 dB	50°
Max Power	W	200 W
Connector		Nf
Lightning protection	All metal parts are D.C. grounded	

MECHANICAL DATA		
Dimension length	mm	1225X920x130
Elements numbers		8
Weight without clamp	kg	2.9
Wind surface	m²	Front 0.02 side 0.07
Front wind load	Kg	0.7 (25 m/s)
Side wind load	Kg	2.9 (25 m/s)
Mounting +/- 90°	mm	standard polarizer Ø 30

MATERIALS

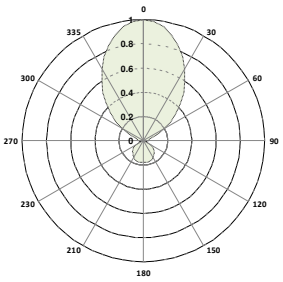
Anticorodal alluminium - Brass - Teflon
- Polyvinyl chloride - RoHS compliance

ACCESSORIES

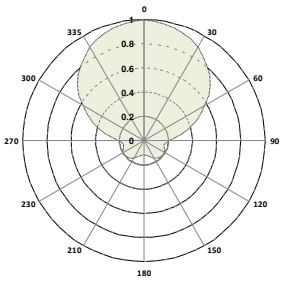
SUPIS01		Isolation fiberglass pole Ø 35 x 1000
BAG170250		Transport bag

ORDERING AND PACKAGING INFORMATIONS

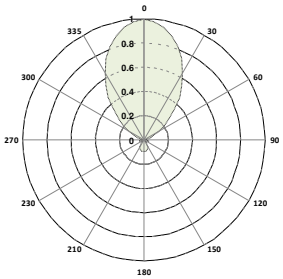
ARL170**F**250XZ	With unscrewed elements
ARL170**R**250XZ	With folding elements
PACKAGING mm.	1300x200x200 / weight 4 Kg



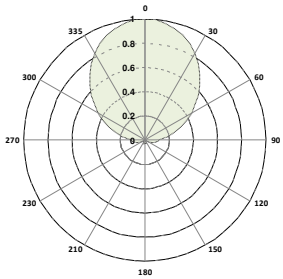
170 Mhz E plane



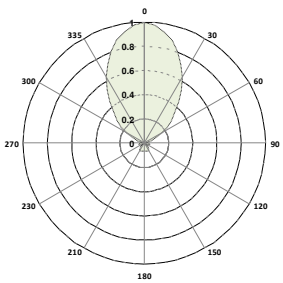
170 Mhz H plane



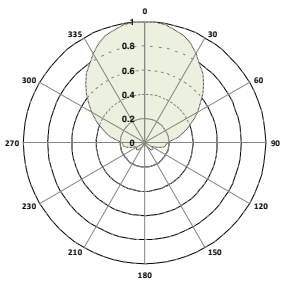
200 Mhz E plane



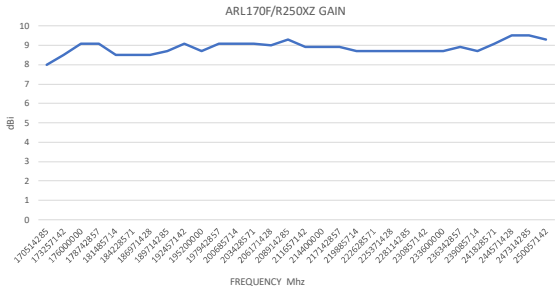
200 Mhz H plane

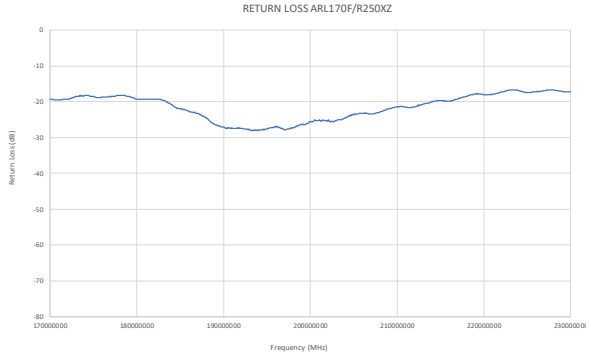


230 Mhz E plane



230 Mhz H plane





In relazione alle normative in materia di responsabilità sui prodotti, segnaliamo che nel caso di utilizzo delle nostre antenne in condizioni operative particolari, quali ad esempio forti sollecitazioni dinamiche dovute a vento, vibrazioni o deformazioni delle strutture di sostegno, si possono verificare rotture del prodotto stesso e/o la caduta a terra. L'installatore che deve essere altamente qualificato, deve conoscere le normative nazionali di sicurezza in vigore, deve seguire le informazioni contenute nelle nostre istruzioni, deve verificare sempre l'adeguatezza del prodotto stesso alle condizioni operative del sito di installazione e deve controllare l'installazione operando la manutenzione periodica dell'impianto. ---- In relation to the laws concerning product liability, we notify you that in case you use our antennas in severe operative conditions such as, for example, strong wind, vibrations or distortions of the support structure, the product can break and/or fall down. The person who install the product must be skilled, must know the national security law in force, must follow the product instructions, must check that the product is compatible with the installation site and must control the installation with periodical maintenance.

Updating 02/2017

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Antenna type ARL170R/F1000XZ

DIRECTIONAL BROADBAND ANTENNA

170 ÷ 1000 MHZ



ELECTRICAL DATA		
Frequency range A	MHz	170 ÷ 1000
Bandwidth	MHz	830
Gain max .	dBi	9.5
Return loss	dB	≥ -14
VSWR		≤ 1.5:1
Nominal impedance	Ω	50
Polarization	Ω	V/H
H beamwidth 170 Mhz	-3 dB	130°
H beamwidth 400 Mhz	-3 dB	50°
H beamwidth 700 Mhz	-3 dB	70°
E beamwidth 170 Mhz	-3 dB	70°
E beamwidth 400 Mhz	-3 dB	50°
E beamwidth 700 Mhz	-3 dB	70°
Max Power	W	200 W
Connector		Nf
Lightning protection	All metal parts are D.C. grounded	

MECHANICAL DATA		
Dimension length	mm	1070X1340x280
Elements numbers		14
Weight without clamp	kg	2.9
Wind surface	m²	Front 0.02 side 0.05
Front wind load	Kg	0.8 (25 m/s)
Side wind load	Kg	2.5 (25 m/s)
Mounting +/- 90°	mm	standard polarizer Ø 30

MATERIALS

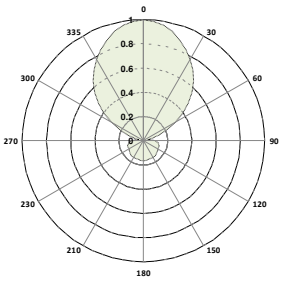
Anticorodal alluminium - Brass - Teflon
- Polyvinyl chloride - RoHS compliance

ACCESSORIES

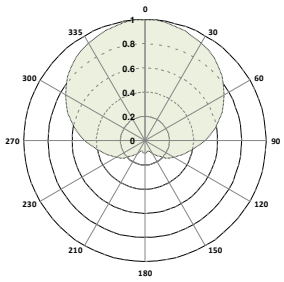
SUPIS01		Isolation fiberglass pole Ø 35 x 1000
BAG1701000		Transport bag

ORDERING AND PACKAGING INFORMATIONS

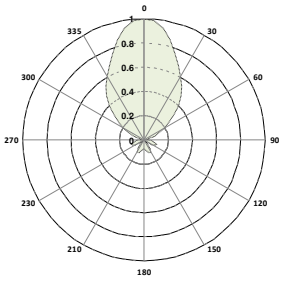
ARL170**F**1000XZ	With unscrewed elements
ARL170**R**1000XZ	With folding elements
PACKAGING mm.	1100x200x200 / weight 3.5 Kg



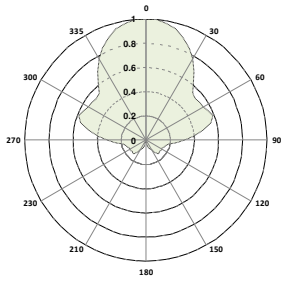
170 Mhz E plane



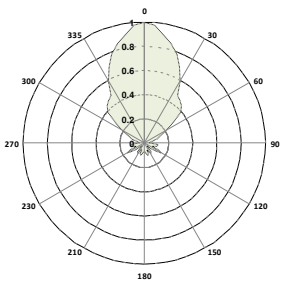
170 Mhz H plane



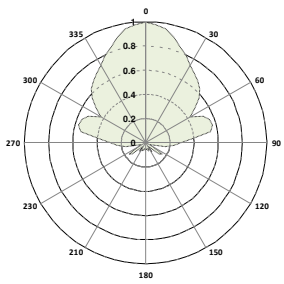
400 Mhz E plane



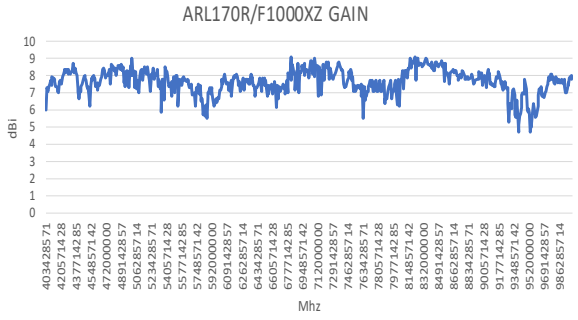
400 Mhz H plane

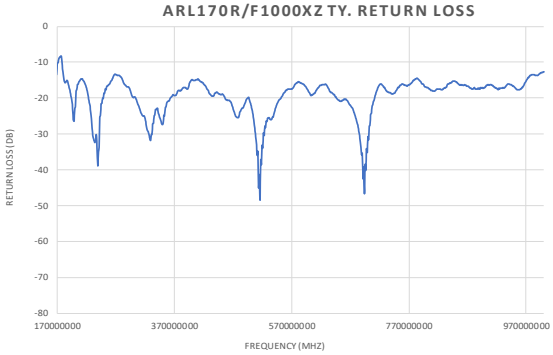


700 Mhz E plane



700 Mhz H plane





In relazione alle normative in materia di responsabilità sui prodotti, segnaliamo che nel caso di utilizzo delle nostre antenne in condizioni operative particolari, quali ad esempio forti sollecitazioni dinamiche dovute a vento, vibrazioni o deformazioni delle strutture di sostegno, si possono verificare rotture del prodotto stesso e/o la caduta a terra. L'installatore che deve essere altamente qualificato, deve conoscere le normative nazionali di sicurezza in vigore, deve seguire le informazioni contenute nelle nostre istruzioni, deve verificare sempre l'adeguatezza del prodotto stesso alle condizioni operative del sito di installazione e deve controllare l'installazione operando la manutenzione periodica dell'impianto. ---- In relation to the laws concerning product liability, we notify you that in case you use our antennas in severe operative conditions such as, for example, strong wind, vibrations or distortions of the support structure, the product can break and/or fall down. The person who install the product must be skilled, must know the national security law in force, must follow the product instructions, must check that the product is compatible with the installation site and must control the installation with periodical maintenance.

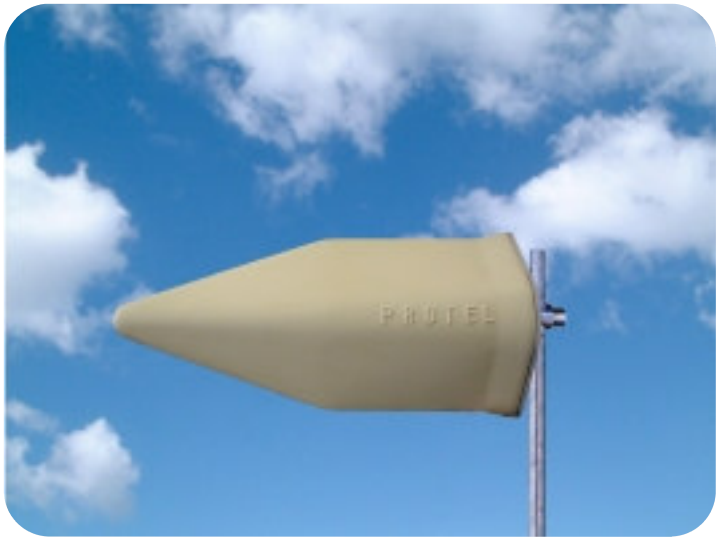
Updating 02/2017

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Antenna type ARL380F3000XZ

DIRECTIONAL BROADBAND ANTENNA

380 ÷ 3000 MHZ



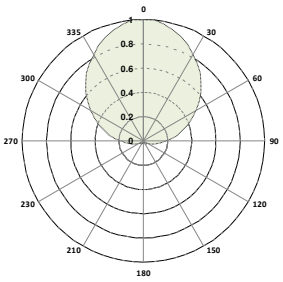
ELECTRICAL DATA		
Frequency range A	MHz	380÷3000
Bandwidth	MHz	2620
Gain max .	dBi	8.5
Return loss	dB	≥ -14
VSWR		≤ 1.5:1
Nominal impedance	Ω	50
Polarization	Ω	V/H
H beamwidth 400 Mhz	-3 dB	100°
H beamwidth 1500 Mhz	-3 dB	100°
H beamwidth 3000 Mhz	-3 dB	90°
E beamwidth 400 Mhz	-3 dB	80°
E beamwidth 1500 Mhz	-3 dB	60°
E beamwidth 3000 Mhz	-3 dB	60°
Max Power	W	100 W
Connector		Nf
Lightning protection	All metal parts are D.C. grounded	

MECHANICAL DATA		
Dimension length	mm	700Xh205x300
Elements numbers		24
Weight	kg	3.9
Wind surface	m²	Front 0.03 side 0.14
Front wind load	Kg	1.3 (25 m/s)
Side wind load	Kg	5.7 (25 m/s)
Mounting +/- 90°	mm	mechanical polarizer Ø30÷70

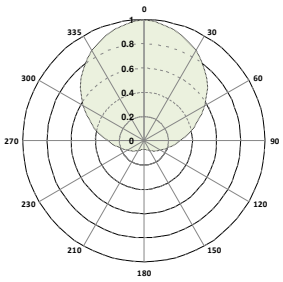
MATERIALS
Anticorodal alluminium - Brass - Teflon
- Polyvinyl chloride - RoHS compliance- fiberglass

ACCESSORIES		
BAG380F3000		Transport bag

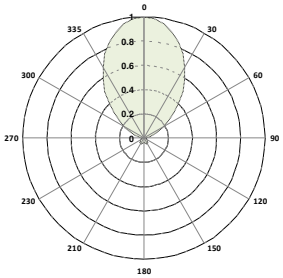
ORDERING AND PACKAGING INFORMATIONS	
ARL380F3000XZ	
PACKAGING mm.	800x350x350 / weight 4.5 Kg



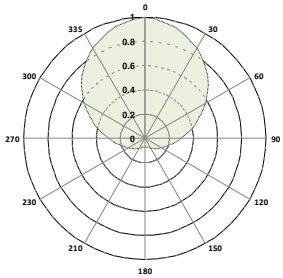
400 Mhz E plane



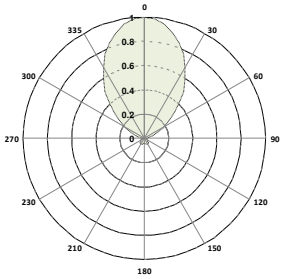
400 Mhz H plane



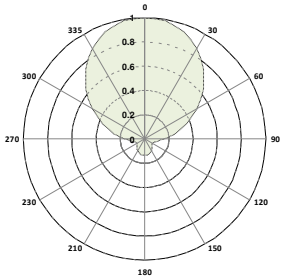
1500 Mhz E plane



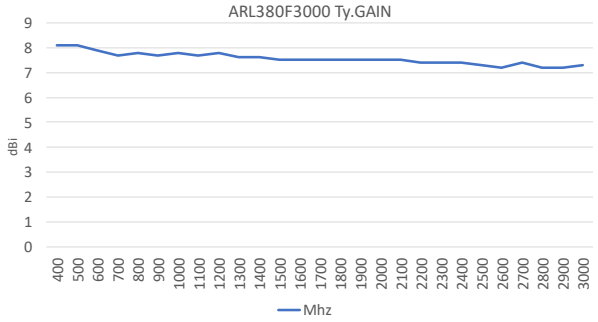
1500 Mhz H plane

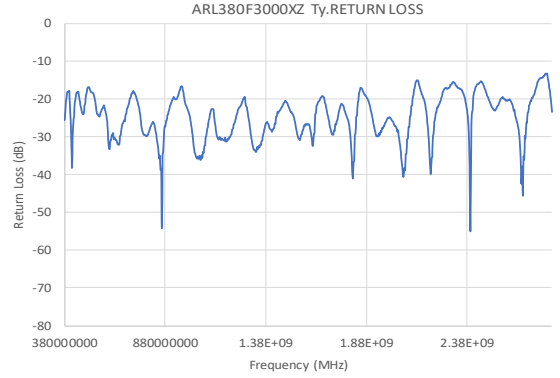


3000 Mhz E plane



3000Mhz H plane





In relazione alle normative in materia di responsabilità sui prodotti, segnaliamo che nel caso di utilizzo delle nostre antenne in condizioni operative particolari, quali ad esempio forti sollecitazioni dinamiche dovute a vento, vibrazioni o deformazioni delle strutture di sostegno, si possono verificare rotture del prodotto stesso e/o la caduta a terra. L'installatore che deve essere altamente qualificato, deve conoscere le normative nazionali di sicurezza in vigore, deve seguire le informazioni contenute nelle nostre istruzioni, deve verificare sempre l'adeguatezza del prodotto stesso alle condizioni operative del sito di installazione e deve controllare l'installazione operando la manutenzione periodica dell'impianto. --- In relation to the laws concerning product liability, we notify you that in case you use our antennas in severe operative conditions such as, for example, strong wind, vibrations or distortions of the support structure, the product can break and/or fall down. The person who install the product must be skilled, must know the national security law in force, must follow the product instructions, must check that the product is compatible with the installation site and must control the installation with periodical maintenance.

Updating 02/2017

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Antenna type ARL470F700XS

DIRECTIONAL BROADBAND ANTENNA

470 ÷ 700 MHZ



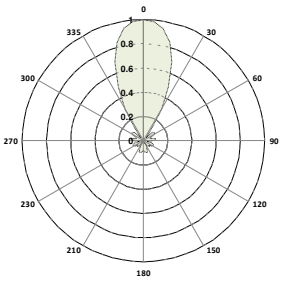
ELECTRICAL DATA		
Frequency range A	MHz	470 ÷ 700
Bandwidth	MHz	230
Gain max .	dBi	12
Return loss	dB	≥ -14
VSWR		≤ 1.5:1
Nominal impedance	Ω	50
Polarization	Ω	V/H
H beamwidth 480 Mhz	-3 dB	44°
H beamwidth 600 Mhz	-3 dB	48°
H beamwidth 750 Mhz	-3 dB	60°
E beamwidth 480 Mhz	-3 dB	40°
E beamwidth 600 Mhz	-3 dB	42°
E beamwidth 750 Mhz	-3 dB	42°
Max Power	W	300 W
Connector		Nf
Lightning protection	All metal parts are D.C. grounded	

MECHANICAL DATA		
Dimension length	mm	1250X340x70
Elements numbers		17
Weight without clamp	kg	1.9
Wind surface	m²	Front 0.01 side 0.03
Front wind load	Kg	0.15 (25 m/s)
Side wind load	Kg	2.1 (25 m/s)
Mounting +/- 90°	mm	standard polarizer Ø 30

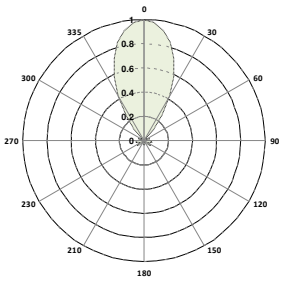
MATERIALS
Anticorodal alluminium - Brass - Teflon
- Polyvinyl chloride - RoHS compliance

ACCESSORIES		
SUPIS01		Isolation fiberglass pole Ø 35 x 1000
BAG470F700		Transport bag

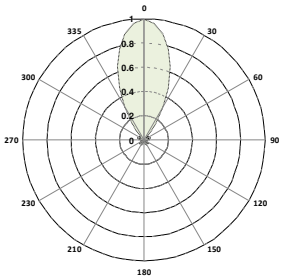
ORDERING AND PACKAGING INFORMATIONS	
PACKAGING mm.	1100x200x200 / weight 2.5 Kg



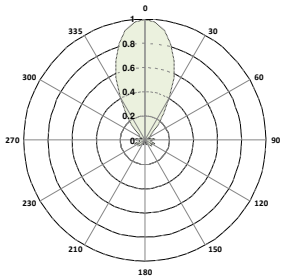
480 Mhz E plane



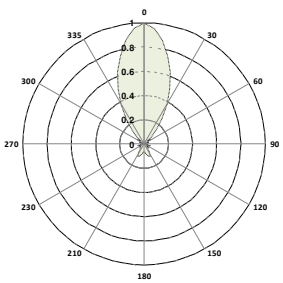
480 Mhz H plane



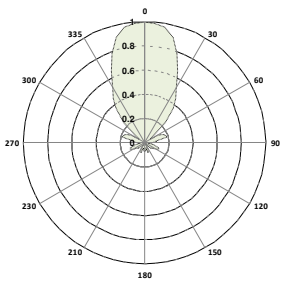
600 Mhz E plane



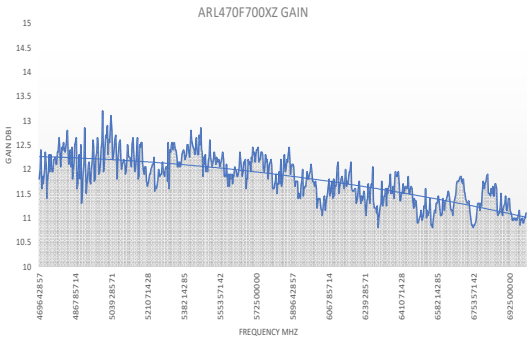
600 Mhz H plane

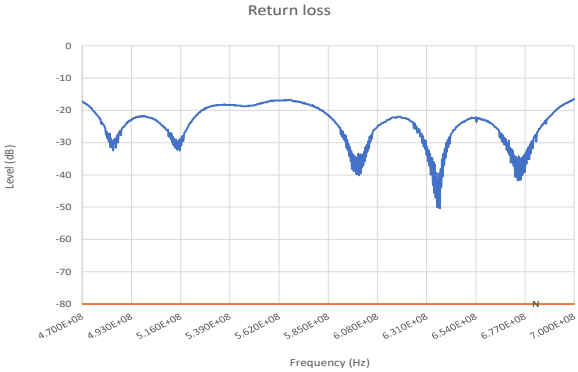


750 Mhz E plane



750 Mhz H plane





In relazione alle normative in materia di responsabilità sui prodotti, segnaliamo che nel caso di utilizzo delle nostre antenne in condizioni operative particolari, quali ad esempio forti sollecitazioni dinamiche dovute a vento, vibrazioni o deformazioni delle strutture di sostegno, si possono verificare rotture del prodotto stesso e/o la caduta a terra. L'installatore che deve essere altamente qualificato, deve conoscere le normative nazionali di sicurezza in vigore, deve seguire le informazioni contenute nelle nostre istruzioni, deve verificare sempre l'adeguatezza del prodotto stesso alle condizioni operative del sito di installazione e deve controllare l'installazione operando la manutenzione periodica dell'impianto. ---- In relation to the laws concerning product liability, we notify you that in case you use our antennas in severe operative conditions such as, for example, strong wind, vibrations or distortions of the support structure, the product can break and/or fall down. The person who install the product must be skilled, must know the national security law in force, must follow the product instructions, must check that the product is compatible with the installation site and must control the installation with periodical maintenance.

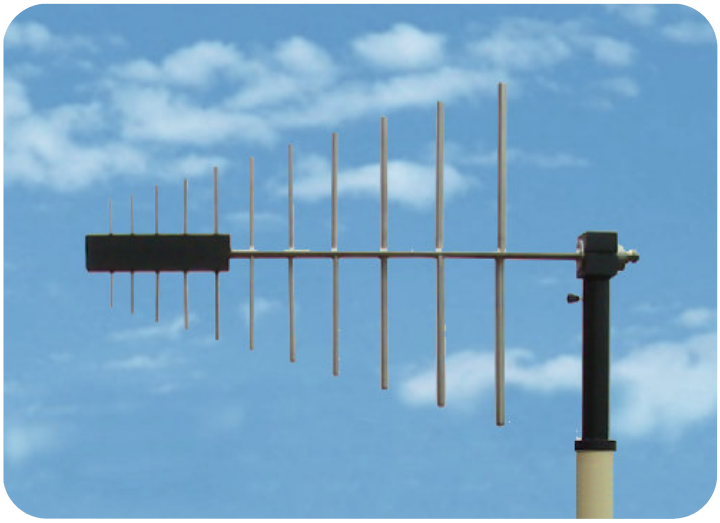
Updating 02/2023

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Antenna type ARL470S/F790XZ

DIRECTIONAL BROADBAND ANTENNA

470 ÷ 790 MHZ



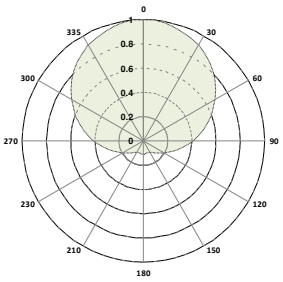
ELECTRICAL DATA		
Frequency range A	MHz	470÷790
Bandwidth	MHz	320
Gain max .	dBi	6.5
Return loss	dB	≥ -14
VSWR		≤ 1.5:1
Nominal impedance	Ω	50
Polarization	Ω	V/H
H beamwidth 470 Mhz	-3 dB	120°
H beamwidth 600 Mhz	-3 dB	130°
H beamwidth 770Mhz	-3 dB	140°
E beamwidth 470 Mhz	-3 dB	110°
E beamwidth 600 Mhz	-3 dB	100°
E beamwidth 770 Mhz	-3 dB	120°
Max Power	W	200 W
Connector		Nf
Lightning protection	All metal parts are D.C. grounded	

MECHANICAL DATA		
Dimension length	mm	580Xh350x40
Elements numbers		11
Weight without clamp	kg	1.4
Wind surface	m²	Front 0.01 side 0.05
Front wind load	Kg	0.15 (25 m/s)
Side wind load	Kg	1 (25 m/s)
Mounting +/- 90°	mm	standard polarizer Ø 30

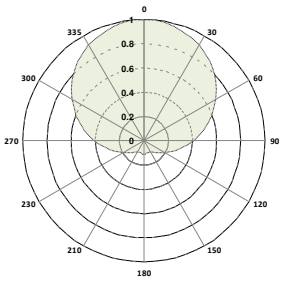
MATERIALS
Anticorodal alluminium - Brass - Teflon
- Polyvinyl chloride - RoHS compliance

ACCESSORIES		
SUPIS01		Isolation fiberglass pole Ø 35 x 1000
BAG470S790		Transport bag

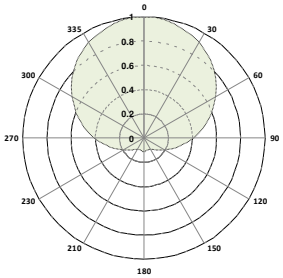
ORDERING AND PACKAGING INFORMATIONS	
ARL470**S**790XZ	With unscrewed elements
ARL470**F**790XZ	With folding elements
PACKAGING mm.	600x350x200 / weight 3 Kg without clamps



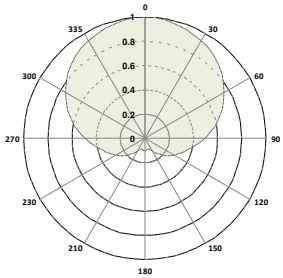
470 Mhz E plane



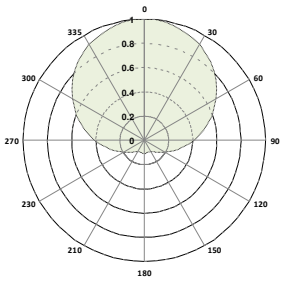
470 Mhz H plane



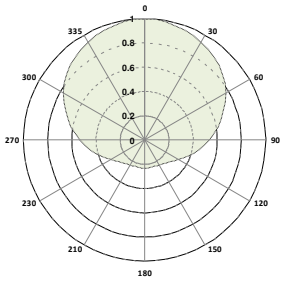
600 Mhz E plane



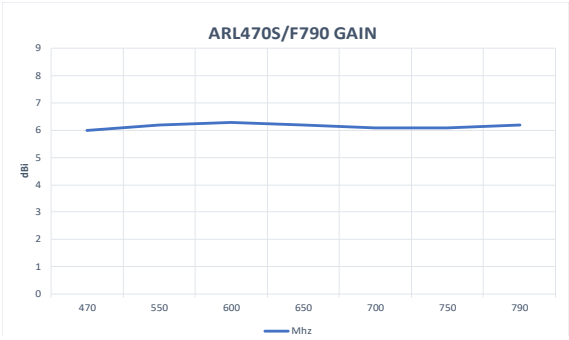
600 Mhz H plane



790 Mhz E plane



790Mhz H plane





In relazione alle normative in materia di responsabilità sui prodotti, segnaliamo che nel caso di utilizzo delle nostre antenne in condizioni operative particolari, quali ad esempio forti sollecitazioni dinamiche dovute a vento, vibrazioni o deformazioni delle strutture di sostegno, si possono verificare rotture del prodotto stesso e/o la caduta a terra. L'installatore che deve essere altamente qualificato, deve conoscere le normative nazionali di sicurezza in vigore, deve seguire le informazioni contenute nelle nostre istruzioni, deve verificare sempre l'adeguatezza del prodotto stesso alle condizioni operative del sito di installazione e deve controllare l'installazione operando la manutenzione periodica dell'impianto. ---- In relation to the laws concerning product liability, we notify you that in case you use our antennas in severe operative conditions such as, for example, strong wind, vibrations or distortions of the support structure, the product can break and/or fall down. The person who install the product must be skilled, must know the national security law in force, must follow the product instructions, must check that the product is compatible with the installation site and must control the installation with periodical maintenance.

Updating 02/2017

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Antenna type ARL690F2700XZ

HANDHELD BROADBAND INTERFERENCE FINDER

LTE ÷ GSM ÷DCS ÷ UMTS MHZ



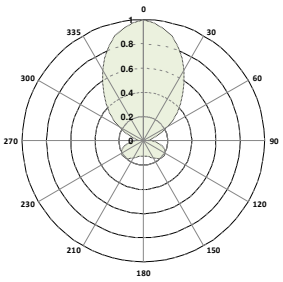
ELECTRICAL DATA		
Frequency range A	MHz	690÷2700
Bandwidth	MHz	2010
Gain max 690÷1000	dBi	8
Gain max 1700÷2700		9.5
Return loss	dB	≥ -14
VSWR		≤ 1.5:1
Nominal impedance	Ω	50
Polarization	Ω	V/H
H beamwidth 790 Mhz	-3 dB	90°
H beamwidth 950 Mhz	-3 dB	90°
H beamwidth 2200 Mhz	-3 dB	70°
E beamwidth 790 Mhz	-3 dB	60°
E beamwidth 950 Mhz	-3 dB	60°
E beamwidth 2200 Mhz	-3 dB	50°
Max Power	W	100 W
Connector		Nf
Lightning protection	All metal parts are D.C. grounded	

MECHANICAL DATA		
Dimension length	mm	350Xh215x70
Elements numbers		10
Weight without clamp	kg	0.95
Wind surface	m²	Front 0.01 side 0.08
Front wind load	Kg	0.4 (25 m/s)
Side wind load	Kg	2.9 (25 m/s)
Mounting	mm	handheld

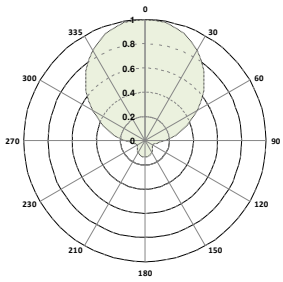
MATERIALS
Anticorodal alluminium - Brass - Teflon - Polyvinyl chloride - RoHS compliance-fiberglass

ACCESSORIES		
BAG690F2700		Transport bag

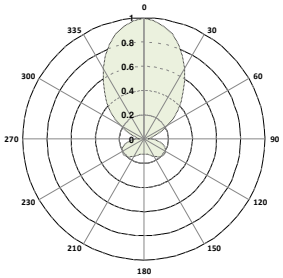
ORDERING AND PACKAGING INFORMATIONS	
ARL690F2700XZ	
PACKAGING mm.	400x220x50 / weight 1.5 Kg without clamps



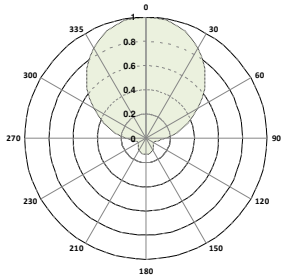
790 Mhz E plane



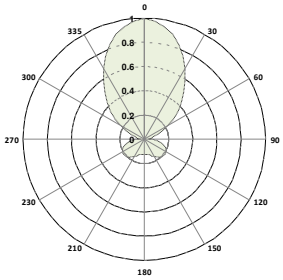
790 Mhz H plane



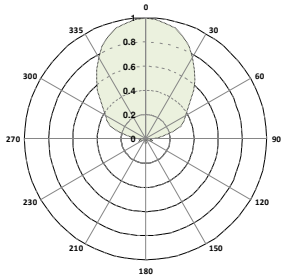
950 Mhz E plane



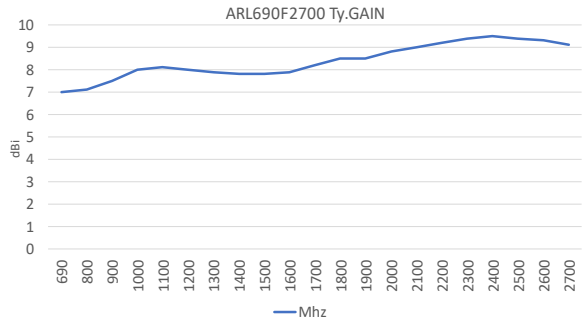
950 Mhz H plane

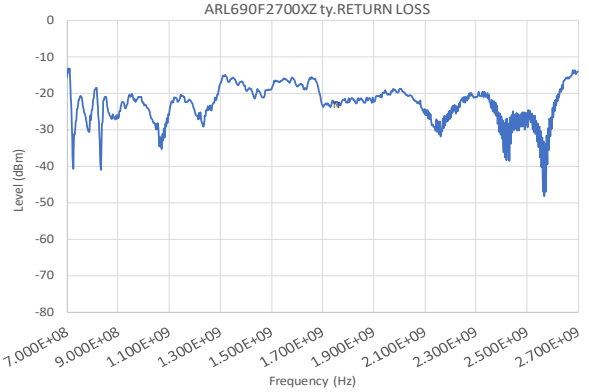


2200 Mhz E plane



2200Mhz H plane





In relazione alle normative in materia di responsabilità sui prodotti, segnaliamo che nel caso di utilizzo delle nostre antenne in condizioni operative particolari, quali ad esempio forti sollecitazioni dinamiche dovute a vento, vibrazioni o deformazioni delle strutture di sostegno, si possono verificare rotture del prodotto stesso e/o la caduta a terra. L'installatore che deve essere altamente qualificato, deve conoscere le normative nazionali di sicurezza in vigore, deve seguire le informazioni contenute nelle nostre istruzioni, deve verificare sempre l'adeguatezza del prodotto stesso alle condizioni operative del sito di installazione e deve controllare l'installazione operando la manutenzione periodica dell'impianto. --- In relation to the laws concerning product liability, we notify you that in case you use our antennas in severe operative conditions such as, for example, strong wind, vibrations or distortions of the support structure, the product can break and/or fall down. The person who install the product must be skilled, must know the national security law in force, must follow the product instructions, must check that the product is compatible with the installation site and must control the installation with periodical maintenance.

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Portable set ARK101XZ

HANDHELD INTERFERENCE FINDER

LTE ÷ GSM ÷DCS ÷ UMTS MHZ



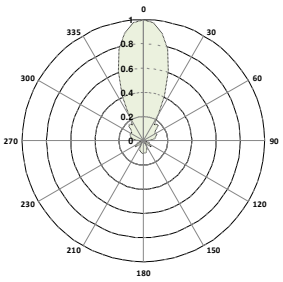
ELECTRICAL DATA		
Frequency range A-B	MHz	790÷960/1710÷2170
Frequency range C	MHz	2500÷2700
Gain max .	dBi	(A)14 (B)16 (C)16
VSWR	dB	≤1.5:1
Return loss	dB	≥ -14
Nominal impedance	Ω	50
Polarization	Ω	V-H
H beamwidth 900 Mhz	-3 dB	34
H beamwidth 1800 Mhz	-3 dB	14
H beamwidth 2100 Mhz	-3 dB	14
H beamwidth 2600 Mhz	-3 dB	25
E beamwidth 900 Mhz	-3 dB	35
E beamwidth 1800 Mhz	-3 dB	14
E beamwidth 2100 Mhz	-3 dB	14
E beamwidth 2600 Mhz	-3 dB	24
Connector		N
cable		2 mt.cable BWL195 Nf
Lightning protection	All metal parts are D.C. grounded	

MECHANICAL DATA		
Dimension box	mm	1000X700x300
Numbers of antennas		3
Weight	kg	4.5
Mounting	Special hand H./tripodeØ25÷50mm.	

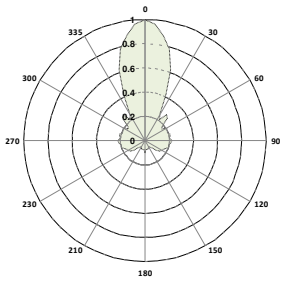
MATERIALS
Anticorodal alluminium - Brass – Teflon-
- Polyvinyl chloride - RoHS compliance

ACCESSORIES		
TRIPODE01		TRIPODE 1.8 mt.
ARK101BOX		suit cases

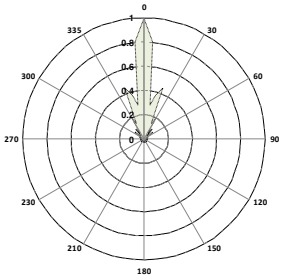
ORDERING AND PACKAGING INFORMATIONS	
ARK101XZ	COMPLETE SET LTE-GSM-DCS-UMTS
PACKAGING mm.	1100x800x300 / weight 5 Kg



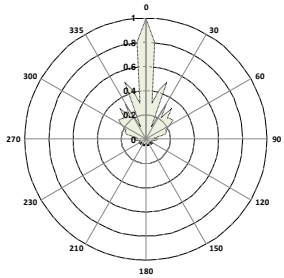
900 Mhz E plane



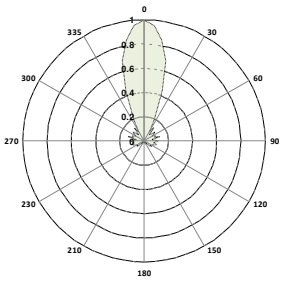
900 Mhz H plane



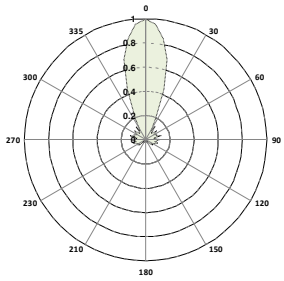
2100 Mhz E plane



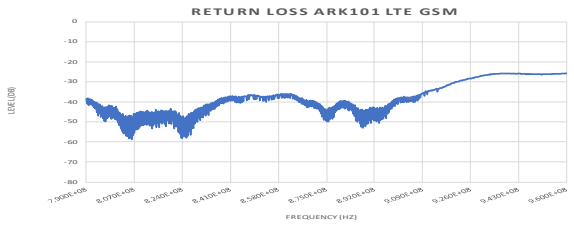
2100 Mhz H plane

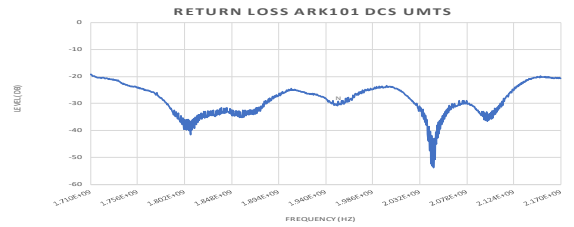


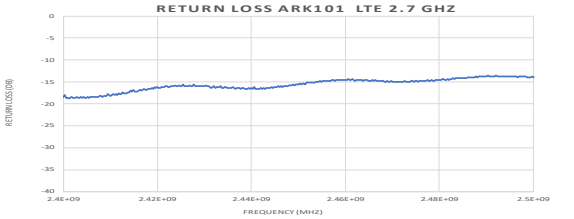
2700 Mhz E plane



2700 Mhz H plane







In relazione alle normative in materia di responsabilità sui prodotti, segnaliamo che nel caso di utilizzo delle nostre antenne in condizioni operative particolari, quali ad esempio forti sollecitazioni dinamiche dovute a vento, vibrazioni o deformazioni delle strutture di sostegno, si possono verificare rotture del prodotto stesso e/o la caduta a terra. L'installatore che deve essere altamente qualificato, deve conoscere le normative nazionali di sicurezza in vigore, deve seguire le informazioni contenute nelle nostre istruzioni, deve verificare sempre l'adeguatezza del prodotto stesso alle condizioni operative del sito di installazione e deve controllare l'installazione operando la manutenzione periodica dell'impianto. ---- In relation to the laws concerning product liability, we notify you that in case you use our antennas in severe operative conditions such as, for example, strong wind, vibrations or distortions of the support structure, the product can break and/or fall down. The person who install the product must be skilled, must know the national security law in force, must follow the product instructions, must check that the product is compatible with the installation site and must control the installation with periodical maintenance.

Updating 02/2017

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Amplified portable antenna
ARK102XZ

HANDHELD INTERFERENCE FINDER LTE ÷ GSM



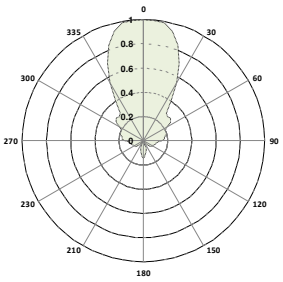
ELECTRICAL DATA			
Frequency range		MHz	790÷960
Gain max .		dBi	35
VSWR		dB	≤1.5:1
Return loss		dB	≥ -14
Typ. noise figure		dB	0.38
Nominal impedance		Ω	50
Polarization		Ω	V-H
H beamwidth	**815 Mhz**	-3 dB	40
H beamwidth	**915 Mhz**	-3 dB	30
H beamwidth	**950 Mhz**	-3 dB	28
E beamwidth	**815 Mhz**	-3 dB	50
E beamwidth	**915 Mhz**	-3 dB	30
E beamwidth	**950 Mhz**	-3 dB	26
Connector			Nf
cable			2 mt.cable BWL195 Nf
Power supply		5 V inside rechargeable battery/8h	
Lightning protection		All metal parts are D.C. grounded	

MECHANICAL DATA		
Dimension suitecase	mm	900X305x100
Weight suitecase +antenna	kg	5.2
Weight only antenna	kg	1.9
Mounting		
Impugnatura a mano	Handheld	
Sul palo del mezzo Mobile Ø 30 mm.	on mast of mobile vehicles ø 30mm.	
sul cavalletto/tripode	on tripod Ø 30 mm.	

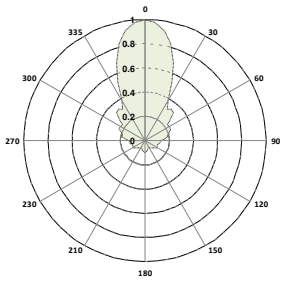
MATERIALS
Anticorodal alluminium -Brass–Teflon-Polycarbonate
- Polyvinyl chloride - RoHS compliance

ACCESSORIES		
TRIPODE01		TRIPOD 1.8 mt.

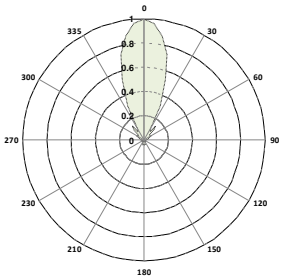
ORDERING AND PACKAGING INFORMATIONS	
ARK102XZ	COMPLETE HANDHELDER SET LTE-GSM
PACKAGING mm.	950x310x110 / weight 5.5 Kg



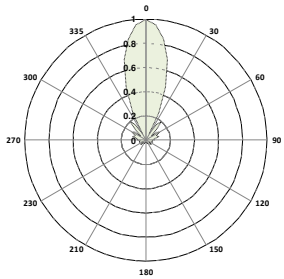
815 Mhz E plane



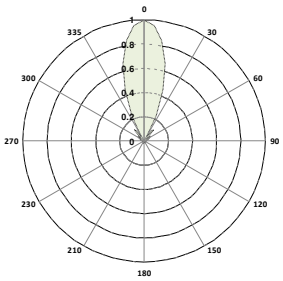
815 Mhz H plane



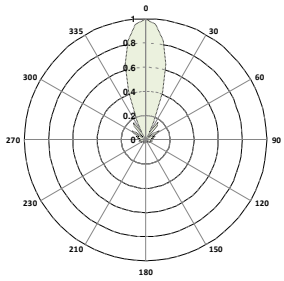
915 Mhz E plane



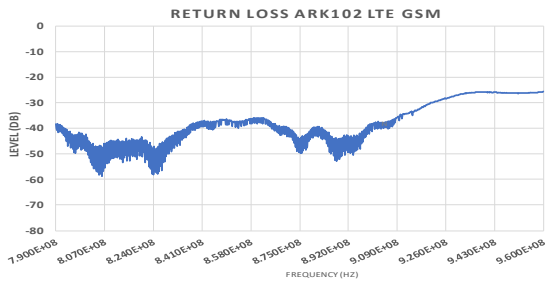
915Mhz H plane

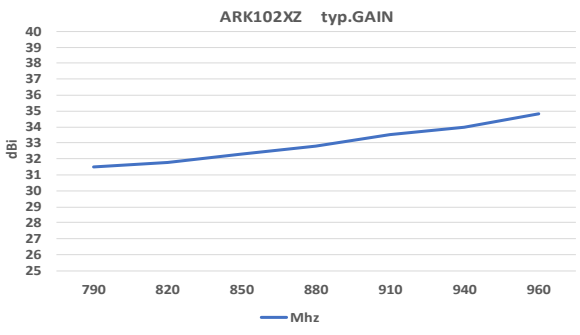


950 Mhz E plane



950 Mhz H plane





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Updating 12/2017

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Amplified portable antenna
ARK103XZ

HANDHELD INTERFERENCE FINDER GSM÷LTE÷DCS÷UMTS



ELECTRICAL DATA

Frequency range	MHz	1350÷2200
beamwidth	MHz	850
Gain max.	dBi	30
VSWR	dB	≤1.5:1
Return loss	dB	≥ -14
Typ. noise figure	dB	0.49
Nominal impedance	Ω	50
Polarization	-3 dB	V-H
H beamwidth 1800 Mhz	-3 dB	15
H beamwidth 1900 Mhz	-3 dB	14
H beamwidth 2100 Mhz	-3 dB	12
E beamwidth 1800 Mhz	-3 dB	18
E beamwidth 1900 Mhz	-3 dB	14
E beamwidth 2100 Mhz	-3 dB	13
cable		0.5 mt.cable BWL195 Nf
P. supply/autonomy	5 V inside rechargeable battery/24h	
Lightning protection	All metal parts are D.C. grounded	

MECHANICAL DATA

Dimension suitecase	mm	900X305x100
Weight suitecase +antenna	kg	5.1
Weight only antenna	kg	1.8
Mounting		
Impugnatura a mano	Handheld	
Sul palo del mezzo Mobile Ø 30 mm.	on mast of mobile vehicles ø 30mm.	
sul cavalletto/tripode	on tripod Ø 30 mm.	

MATERIALS

Anticorodal alluminium -Brass–Teflon-Polycarbonate

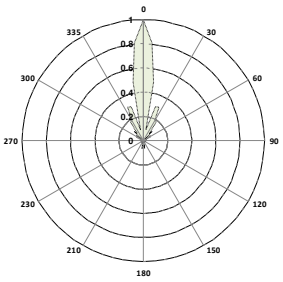
- Polyvinyl chloride - RoHS compliance

ACCESSORIES

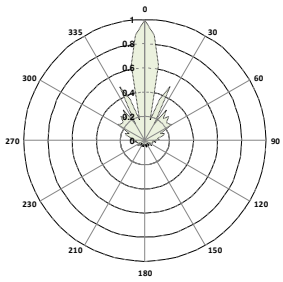
TRIPODE01		TRIPODE 1.8 mt.

ORDERING AND PACKAGING INFORMATIONS

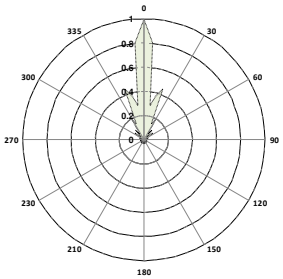
ARK103XZ	COMPLETE HANDHELDER SET GSM÷LTE÷DCS÷UMTS
PACKAGING mm.	950x310x110 / weight 5.5 Kg



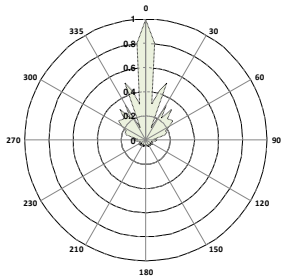
1850 Mhz E plane



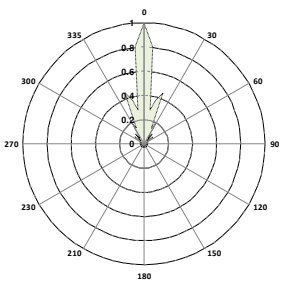
1850 Mhz H plane



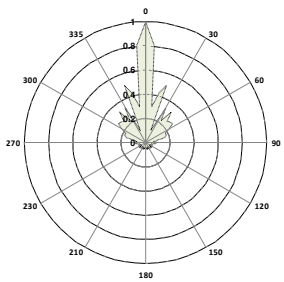
1900 Mhz E plane



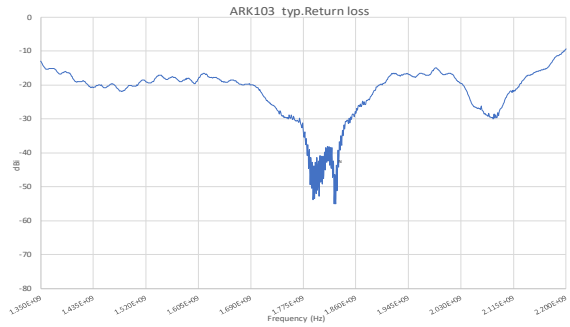
1900 Mhz H plane

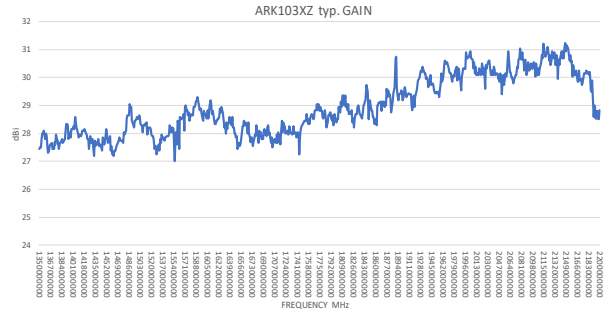


2050 Mhz E plane



2050 Mhz H plane





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Updating 12/2017

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Antenna type ARBF.XZ

HANDHELD BROADBAND INTERFERENCE FINDER

2400 ÷ 2700 * 3400 ÷ 3700 * 5150÷ 5850 MHZ



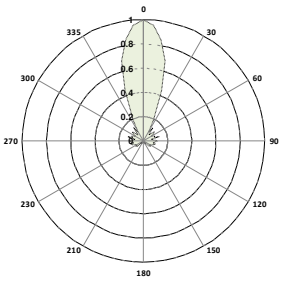
ELECTRICAL DATA		
Frequency range A	MHz	2400÷2700
Frequency range B	MHz	3400÷3700
Frequency range C	MHz	5100÷5850
Gain max . A	dBi	16
Gain max . B	dBi	18
Gain max . C	dBi	20
Return loss	dB	≥ -12
VSWR		≤ 1.7:1
Nominal impedance	Ω	50
Polarization	Ω	V/H
H beamwidth2500Mhz	-3 dB	25°
H beamwidth3500Mhz	-3 dB	20°
H beamwidth5500Mhz	-3 dB	15°
E beamwidth2500Mhz	-3 dB	24°
E beamwidth3500Mhz	-3 dB	18°
E beamwidth5500Mhz	-3 dB	14°
Max Power	W	50 W
Connector		Nf
Lightning protection	All metal parts are D.C. grounded	

MECHANICAL DATA		
Dimension length	mm	Ø260X170
Elements numbers		1
Weight without clamp	kg	1.3
Wind surface	m²	Front 0.1 side 0.04
Front wind load	Kg	4 (25 m/s)
Side wind load	Kg	1.4 (25 m/s)
Mounting +/- 90°	mm	Ø35÷55 / HAND HELD

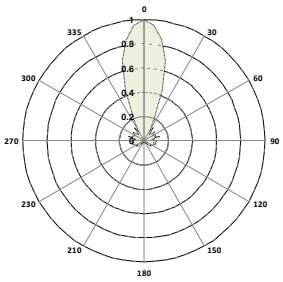
MATERIALS
Anticorodal alluminium - Brass - Teflon
- Polyvinyl chloride - RoHS compliance-

ACCESSORIES		
BAGARBF		Transport bag
ARBFHH		hand held clamp

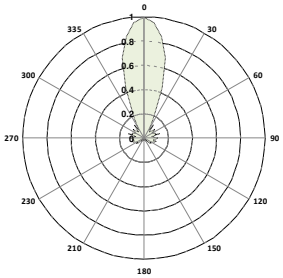
ORDERING AND PACKAGING INFORMATIONS	
ARBFAXZ	2400÷2700 Mhz
ARBFBXZ	3400÷3700 Mhz
ARBFCXZ	5100÷5850 Mhz
PACKAGING mm.	600x400x250 / weight 2.5 Kg



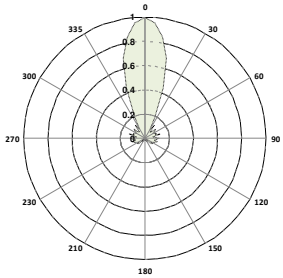
2500 Mhz E plane



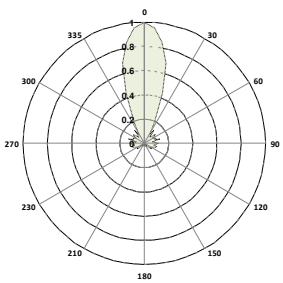
2500 Mhz H plane



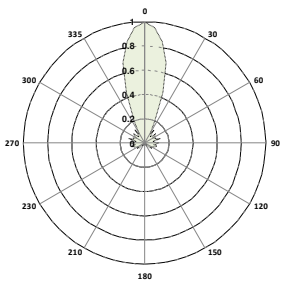
3500 Mhz E plane



3500 Mhz H plane



5500 Mhz E plane



5500 Mhz H plane



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Updating 02/2017

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LNA07400

LOW NOISE AMPLIFIER 700 ÷ 4000 MHz



- HIGHT GAIN BROADBAND AMPLIFIER
- LTE GSM DCS UMTS APPLICATIONS
- HIGHT IP3
- ULTRA LOW NOISE FIGURE
- HIGHT MAX. INPUT POWER
- LOW DIMENSION

• Amplificatore ad alto guadagno con bassa figura di rumore nonostante la grande banda passante. Utilizzato tipicamente in sistemi di amplificazione sulle frequenze LTE GSM DCS UMTS. L'altissima protezione ai prodotti di intermodulazione, lo rende molto affidabile ed indispensabile in sistemi di ricezione per la ricerca interferenziale in ausilio ad antenne o strumentazione di misura

• *High gain amplifier with low noise figure despite large passband. The typical application is in amplification systems on LTE GSM DCS UMTS frequencies. Very high protection against intermodulation products, making it very reliable and indispensable in interference reception systems, in aid of antennas or measuring instruments*

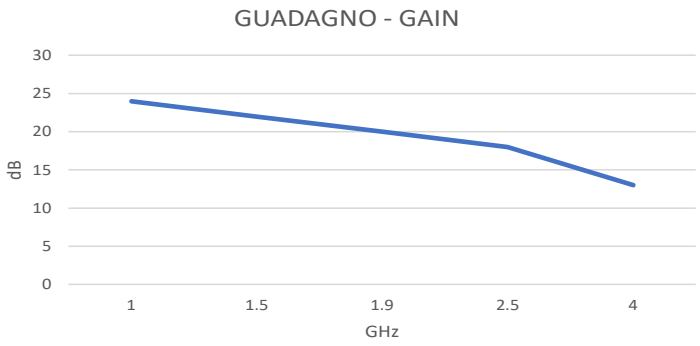
• *Amplificador de alta ganancia con baja figura de ruido a pesar de la gran banda de paso. La aplicación típica es en sistemas de amplificación sobre frecuencias LTE GSM DCS UMTS. Protección muy alta contra los productos de intermodulación, por lo que es muy fiable e indispensable en los sistemas de recepción de interferencias, en ayuda de antenas o instrumentos de medida.*

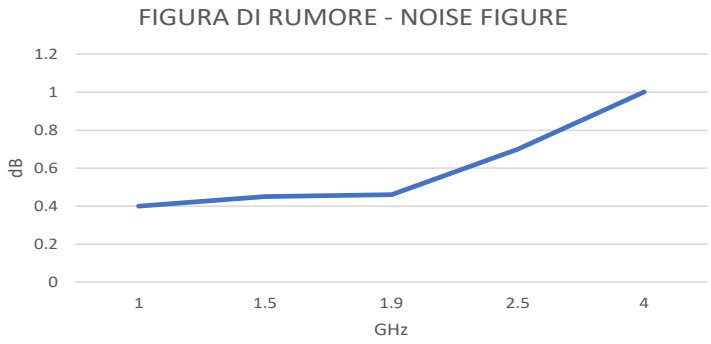
•*Amplificateur à gain élevé, avec un faible facteur de bruit malgré la large bande passante. L'application typique est dans les systèmes d'amplification sur les fréquences LTE GSM DCS UMTS. Très haute protection contre les produits d'intermodulation, ce qui la rend très fiable et indispensable dans les systèmes de réception d'interférences, en aide d'antennes ou d'instruments de mesure*

ELECTRICAL DATA		
Frequency range A	MHz	700 ÷ 4000
Bandwidth	MHz	3300
Gain max.	dBi	24
Noise Figure	dB	0.4 ÷ 0.9
Ip3 typ.	dB	31
Isolation In-Out typ.	dB	30
Power supply range	Vcc	9 ÷ 18
Vswr out max.		≤ 1.5:1
Vswr in max.		≤ 1.6:1
Nominal impedance	Ω	50
Current Operating	mA	60
Connector		SMA female
MECHANICAL DATA		
Height	mm	40
Width	mm	90
Lengh	mm	100
Weight	Kg	0.3
MATERIALS		
Alluminium –		

ACCESSORIES		
KIT/C100LNA	CABLE MR195	1 MT CABLE SMAm-N female
	CABLE LMR195	1 MT CABLE SMAm-N male

ORDERING AND PACKAGING INFORMATIONS	
LNA074000	200x200x100 mm. 0.5 Kg
KIT/C100LNA	200x200x100 mm. 0.5 Kg





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Updating 06/2016

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