



Antenna type ARL80R/F1500XZ

LOG - PERIODIC DIRECTIONAL BROADBAND ANTENNA

80 ÷ 1500 MHz



ELECTRICAL DATA

Frequency range A	MHz	80÷1500
Bandwidth	MHz	1420
Gain max typ.	dBi	8.5
Return loss	dB	≥ -11
VSWR		≤ 1.8:1
Nominal impedance	Ω	50
Polarization	Ω	V/H
front-to-back ratio	-dB	≥ 15
H beamwidth 100 Mhz	-3 dB	120°
H beamwidth 400 Mhz	-3 dB	120°
H beamwidth 1200Mhz	-3 dB	90°
E beamwidth 100 Mhz	-3 dB	60°
E beamwidth 400 Mhz	-3 dB	70°
E beamwidth 1200 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	1680Xh1930x130
Elements numbers		28
Weight without clamp	kg	4.5
Wind surface	m ²	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 aluminium - Brass - Teflon
- Polyvinyl chloride - RoHS compliance

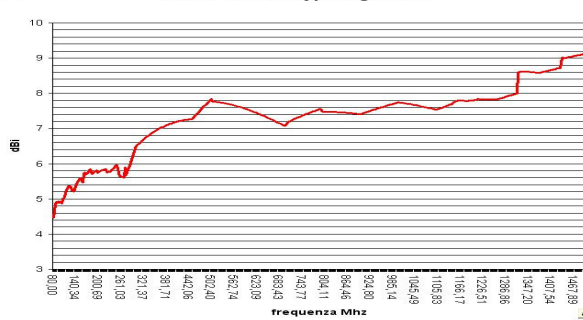
ACCESSORIES

SUPIS01	Isolation fiberglass pole ø 35x1000
BAG801500	Transport bag

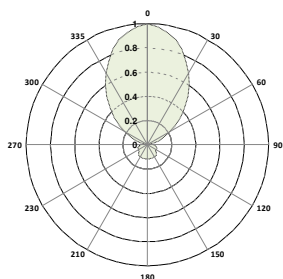
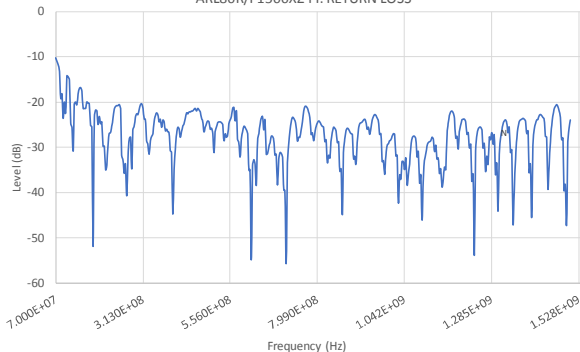
ORDERING AND PACKAGING INFORMATIONS

ARL80 F 1500XZ	With unscrewed elements
ARL80 R 1500XZ	With folding elements
PACKAGING mm.	1900x200x200 / weight 7 Kg without clamps

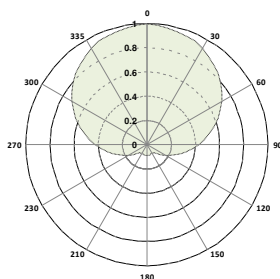
ARL80F1500XZ typical gain dBi



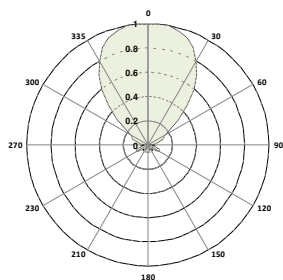
ARL80R/F1500XZ TY. RETURN LOSS



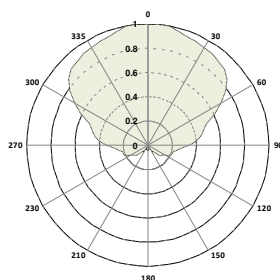
100 Mhz E plane



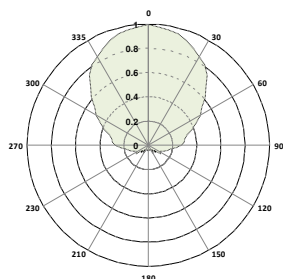
100 Mhz H plane



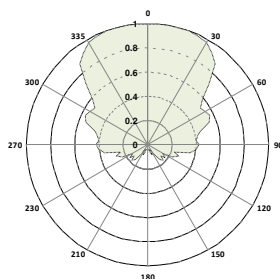
400 Mhz E plane



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

PROTEL reserves the right to amend or modify the products described in this brochure at any time without prior notification in order to improve the design and supply the best possible product.

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