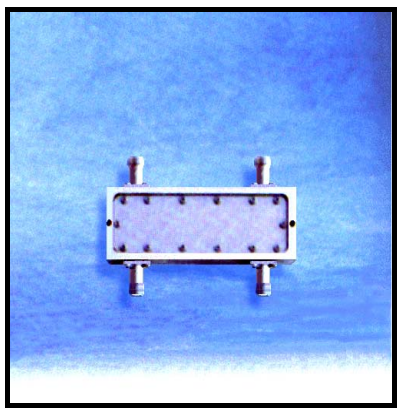
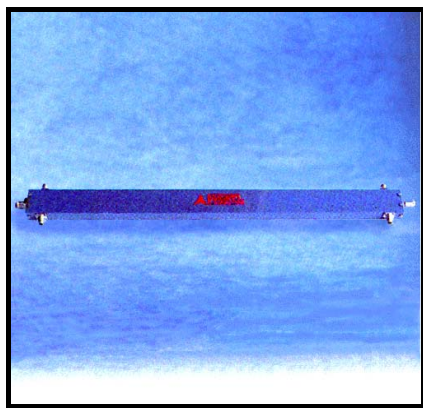


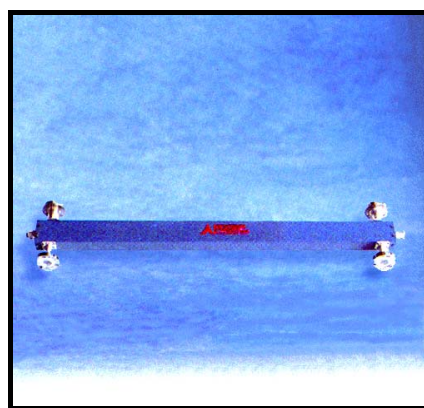
ACCOPPIATORI 3dB - 3dB HYBRID COUPLERS - 200W - 1KW - 3KW



FIU 770



FIV 1W



FIV 3W

DESCRIZIONE

Description

Accoppiatori ibridi a 3dB con uscite sfasate di 90°. Si tratta di circuiti a giunzione ibrida con 4 porte, coniugate a due a due. Le porte coniugate sono isolate tra loro. La potenza applicata ad un terminale non appare al suo coniugato, ma si divide in parti uguali agli altri terminali. Se alimentati in porta 1, le tensioni alle porte 3 e 4 sono in quadratura ed in 2 si ha uno zero. La loro lunghezza è pari ad $\frac{1}{4}\lambda$.

Elementi di base per realizzare tutti i miscelatori delle serie:

DDP 100 – 1W – 2W – 5W.

3dB hybrid couplers with out of phase exit of 90. They are hybrid joint circuit with 4 doors, conjugate two by between themselves. The power applied to terminal, doesn't appear to it's conjugate, but it divides to the other terminals in equal parts. If they are feed in door 1, tensions doors 3 and 4 are in quadrature, and to door 2 you will have tension 0. Their length is equal to $\frac{1}{4}\lambda$.

Basic elements to build every mixers as:

DDP 100 – 1W – 2W – 5W.

SPECIFICATIONS	FIU 770	FIV 1W	FIV 3W
Frequency range	450÷870 MHz	87.5÷108 MHz	87.5÷108 MHz
Characteristic impedance	50 Ω	50 Ω	50 Ω
Max power handling capacity	200 W	1 kW	3 kW
VSWR	<1.05	<1.05	<1.05
Directivity	<27 dB	<34 dB	<34 dB
Insertion loss	-0.1 dB	-0.1 dB	-0.1 dB
Coupling ± 0.2 dB	-3 dB	-3 dB	-3 dB
Connectors	N female	N or 7/16 female	7/8
Colour	grey	grey	grey
Nominal temperature range	-10° to +40°C	-10° to +40°C	-10° to +40°C
Weight	0.4 kg	2.6 kg	3.2 kg
Materials	aluminium, silver brass, stainless steel, teflon		