



WAVEGUIDE WR112 DUPLEXER

RX: 7.606-7.690GHz

TX: 7.767 -7.851 GHz

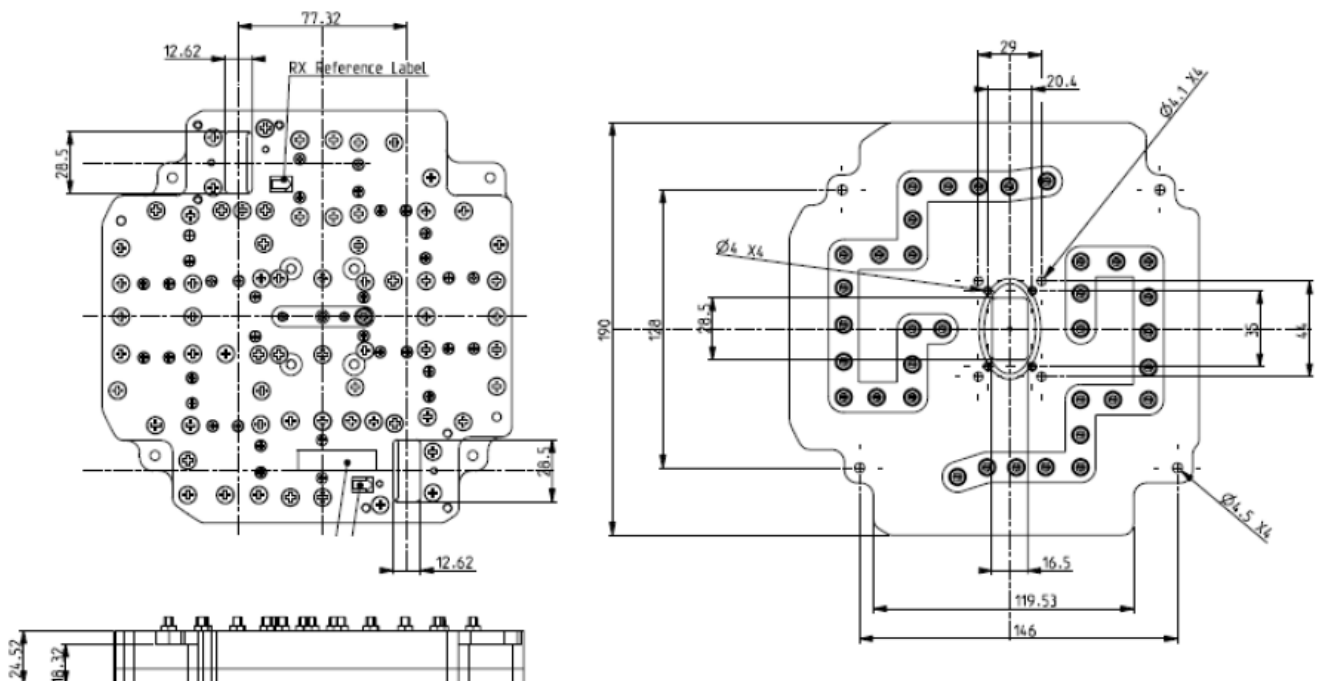
- Compact size and high power handle
- Very high rejection outdoor unit
- Compatible with ITU Standard
- Different frequency and flange available upon request
- Storage temperature -40~+80°C
- Operational Temperature: -30~+70 °C
- Operating Humidity: 0~90% relative
- Material: Aluminum
- Body finish : 2~3µm Ag plated
- Tchebyscheff Response
- Mechanical Test ETS 300-019-1-3 class 3.3

Electrical Specification

Frequency Range:	RX: 7.606-7.690GHz TX: 7.767 -7.851GHz
Insertion Loss:	CH1: 2.3dB max CH2: 2.3dB max
Pass band Ripple:	0.5dB maximum
Power Handle:	200W
Isolation between port:	60dB
Flange:	WR112 CPRF
Impedance:	50 Ω

Environmental Specification

Humidity: According to ETS 300-019-1-3 class 3.3 (par. To 5.1 “climatic conditions”)



WAVEGUIDE WR112 DUPLEXER 7.606-7.690GHZ AND 7.767-7.851GHZ



The following TX and RX channel available upon request.

Tx Frequency range		Rx Frequency range		Bandwidth [MHz]		Shifter [MHz]
Fstart [MHz]	Fstop [MHz]	Fstart [MHz]	Fstop [MHz]	Low band	High band	
FL1	FL2	FH1	FH2			
7128,0	7212,0	7282,0	7366,0	84,0	84,0	154
7184,0	7268,0	7338,0	7422,0	84,0	84,0	154
7428,0	7512,0	7582,0	7666,0	84,0	84,0	154
7484,0	7568,0	7638,0	7722,0	84,0	84,0	154
FH1	FH2	FL1	FL2			
7282,0	7366,0	7128,0	7212,0	84,0	84,0	154
7338,0	7422,0	7184,0	7268,0	84,0	84,0	154
7582,0	7666,0	7428,0	7512,0	84,0	84,0	154
7638,0	7722,0	7484,0	7568,0	84,0	84,0	154

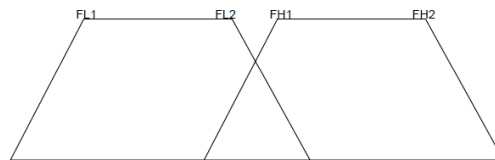


Fig.1 Frequency Diagram Attenuation

ISOLATION

- Isolation in band (iso in) [Port 1 to the Port under test] > 60 dB typical
- Isolation in band (iso in) [Port 1 to the Port under test] > 55 dB in Temperature
- Isolation out band (iso out) [Port 1 to the Port under test] > 40 dB

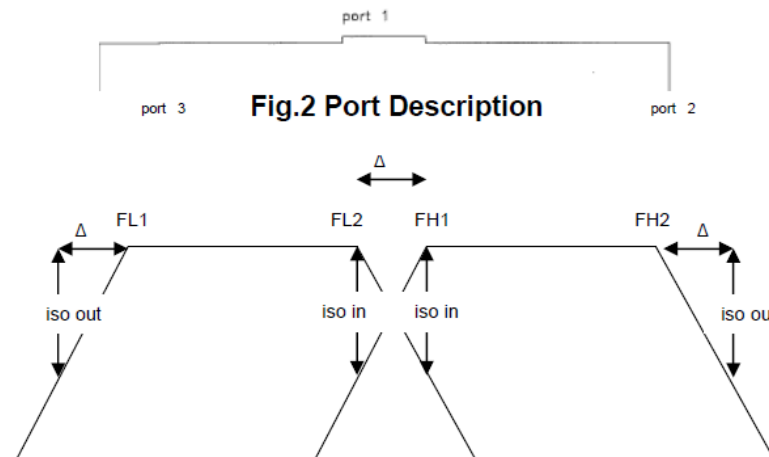


Fig.3 Frequency Diagram Isolation



ISOLATION

- Isolation in band (iso in) [Port 1 to the Port under test] > 60 dB typical
- Isolation in band (iso in) [Port 1 to the Port under test] > 55 dB in Temperature
- Isolation out band (iso out) [Port 1 to the Port under test] > 40 dB



Fig.2 Port Description

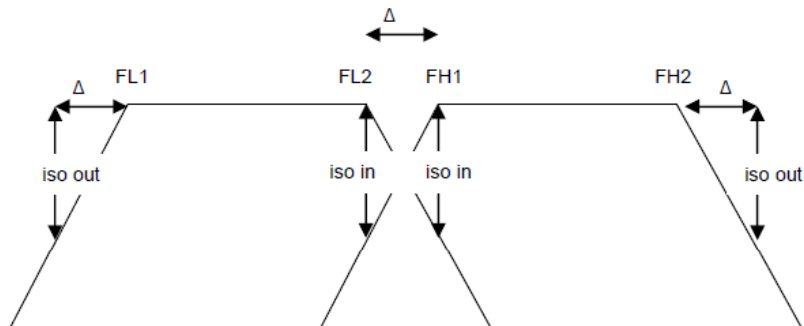


Fig.3 Frequency Diagram Isolation

Isolation port2 - port3

With the port 1 terminated with a load see fig.4

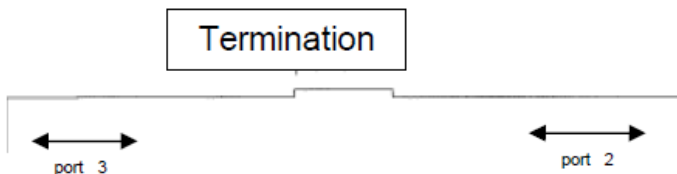


Fig.4 Isolation port 2 - port 3 setting

Isolation Port 2 - Port 3 >55 dB
See fig. 5 for typical diagram of this measure

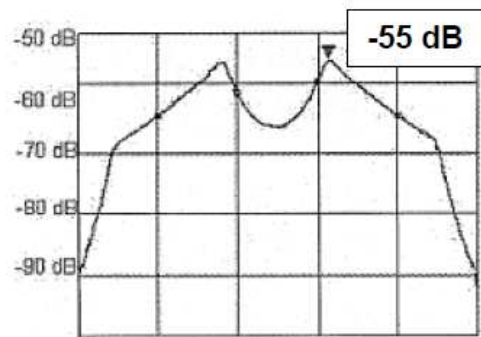


Fig.5 Isolation port 2 - port 3 limits