



WAVEGUIDE WR112 DUPLEXER

RX: 8.317-8.377GHz

TX: 8.440 -8.500 GHz

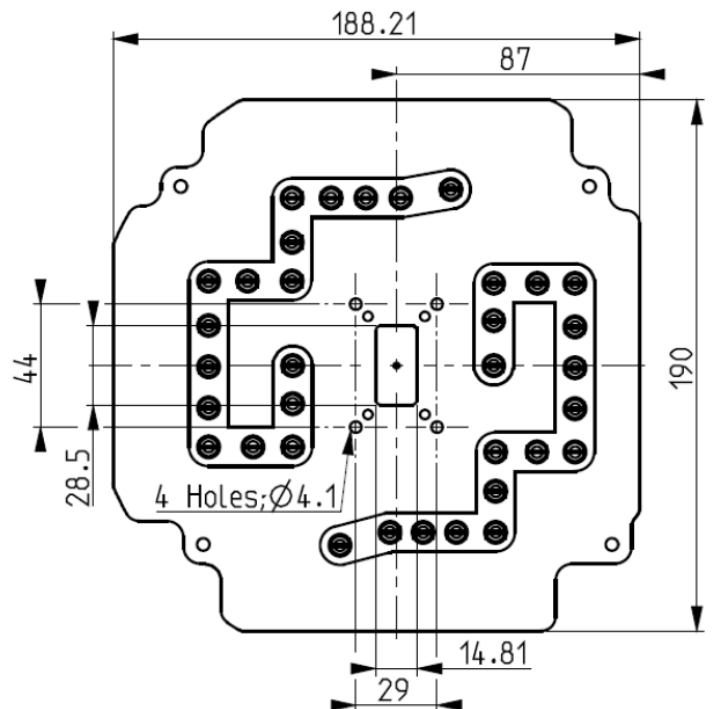
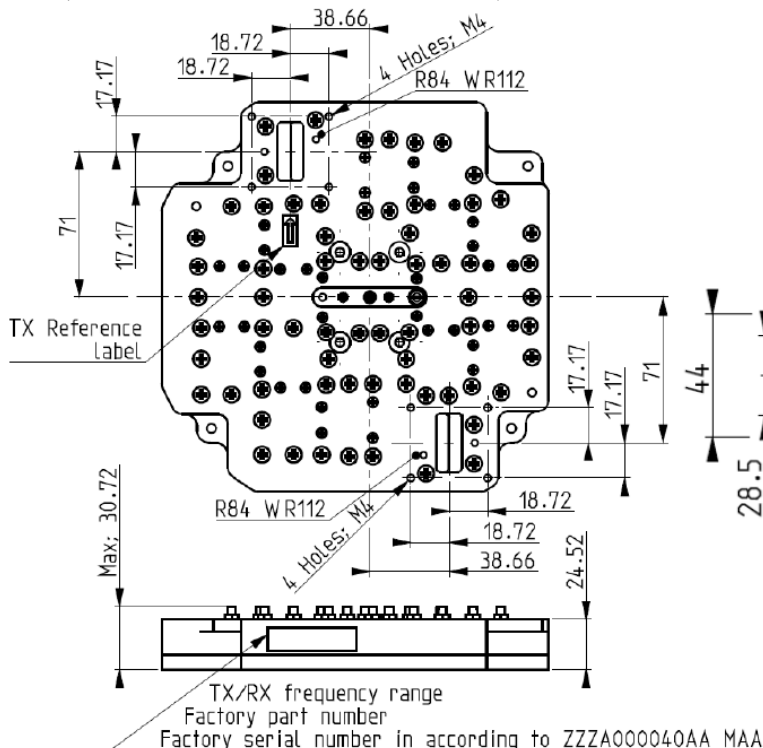
- Compact size and high power handle
- Very high rejection outdoor unit
- Compatible with ITU Standard
- Different frequency and flange available upon request
- Storage temperature -40~+80°C
- Operational Temperature: -30~+70 °C
- Operating Humidity: 0~90% relative
- Material: Aluminum
- Body finish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

Electrical Specification

Frequency Range:	RX: 8.317-8.377GHz TX: 78.440-8.500GHz
Insertion Loss:	CH1: 1.6dB max CH2: 1.6dB 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 8.317-8.377GHZ AND 8.440-8.500GHZ



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			
7725	7845	8025	8145	120,0	120,0	300
7785	7905	8085	8205	120,0	120,0	300
7855	7975	8155	8275	120,0	120,0	300
FH1	FH2	FL1	FL2			
8025	8145	7725	7845	120,0	120,0	300
8085	8205	7785	7905	120,0	120,0	300
8155	8275	7855	7975	120,0	120,0	300
FL1	FL2	FH1	FH2			
8275	8335	8398	8458	60,0	60,0	119
8317	8377	8440	8500	60,0	60,0	119

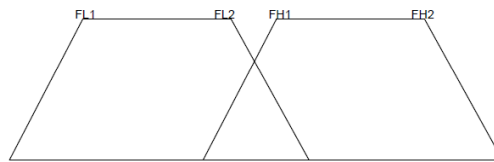


Fig.1 Frequency Diagram Attenuation

ISOLATION

- Isolation in band (iso in) [Port 1 to the Port under test] > 65 dB typical
- Isolation in band (iso in) [Port 1 to the Port under test] > 60 dB
- Isolation out band (iso out) [Port 1 to the Port under test] > 40 dB

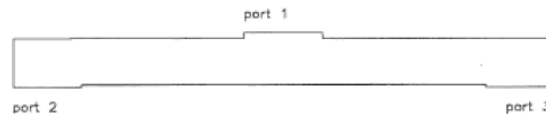


Fig.2 Port Description

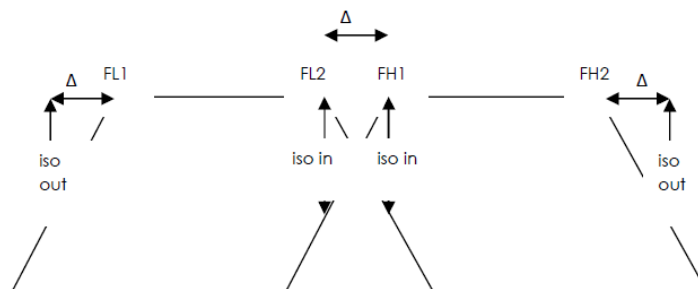


Fig.3 Frequency Diagram Isolation



Isolation port2 - port3

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

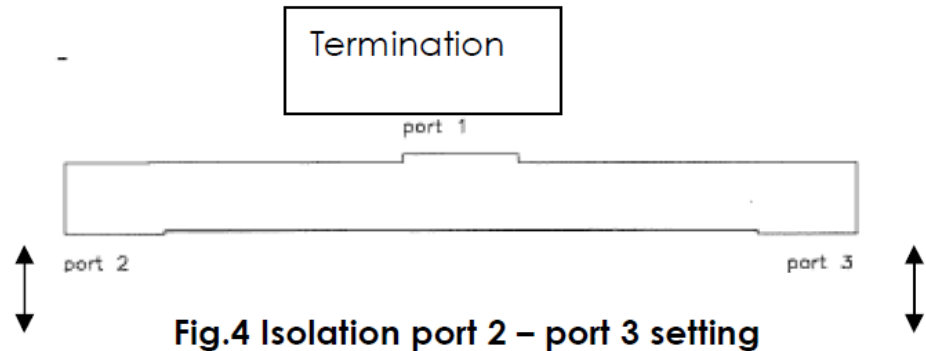


Fig.4 Isolation port 2 – port 3 setting

Isolation Port 2 – Port 3 >55 dB

See fig. 5 for typical diagram of this measure

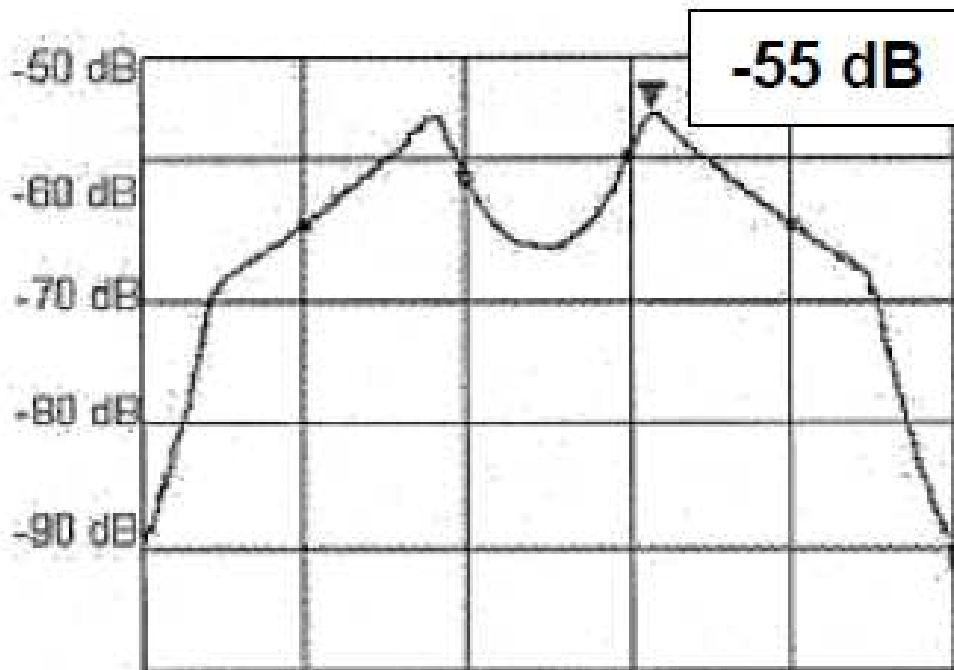


Fig.5 Isolation port 2 – port 3 limits