



WAVEGUIDE WR75 DUPLEXER

RX: 12.891-12.975GHz

TX: 13.157-13.241 GHz

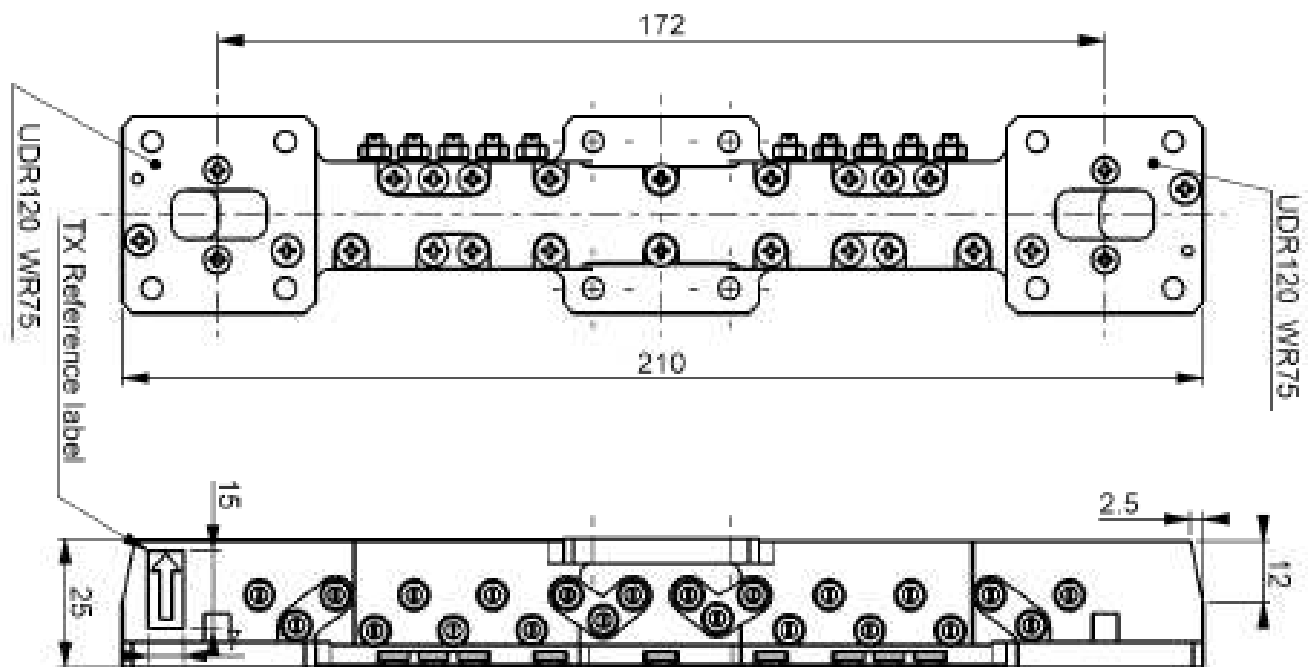
- Compact size and high power handle
- Very high rejection outdoor unit
- Compatible with ITU Standard
- Different frequency and flange available upon request
- Storage temperature -40~+80°C
- Operational Temperature: -30~+70 °C
- Operating Humidity: 0~90% relative
- Material: Aluminum
- Body finish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

Electrical Specification

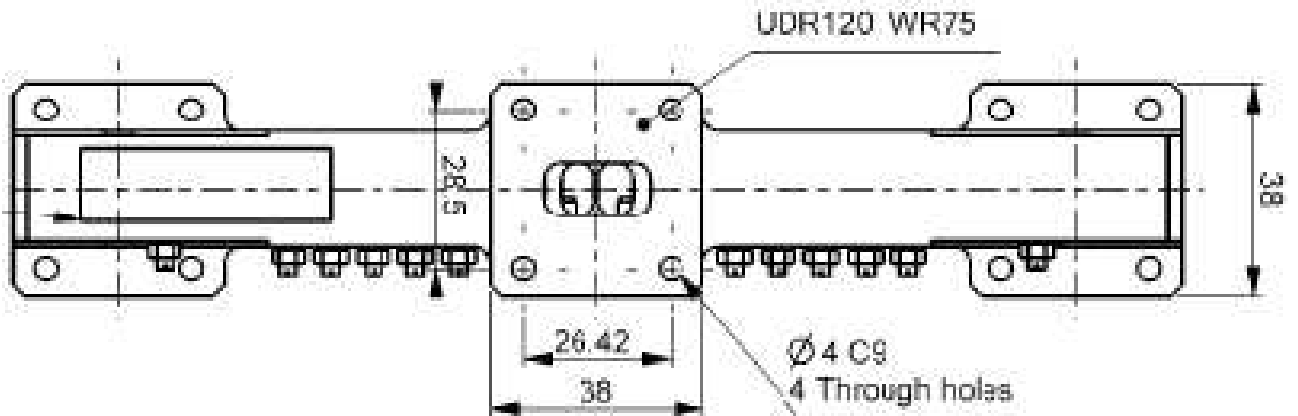
Frequency Range:	RX: 12.891-12.975GHz TX: 13.157-13.241GHz
Insertion Loss:	CH1: 1.5dB max CH2: 1.5dB max
Pass band Ripple:	0.5dB maximum
Power Handle:	200W
Isolation between port:	65dB
Flange:	WR75 CPRF
Impedance:	50 Ω

Environmental Specification

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



WAVEGUIDE WR75 DUPLEXER 12.891-12.975GHz AND 13.157-13.241GHz



The following TX and RX channel available upon request.

Low Band		High Band		Bandwidth [MHz]		Shifter [MHz]
Fstart FL1 [MHz]	Fstop FL2 [MHz]	Fstart FH1 [MHz]	Fstop FH2 [MHz]	Low band	High band	
12751	12835	13017	13101	84	84	266
12807	12891	13073	13157	84	84	266
12863	12947	13129	13213	84	84	266
12891	12975	13157	13241	84	84	266
13017	13101	12751	12835	84	84	266
13073	13157	12807	12891	84	84	266
13129	13213	12863	12947	84	84	266
13157	13241	12891	12975	84	84	266

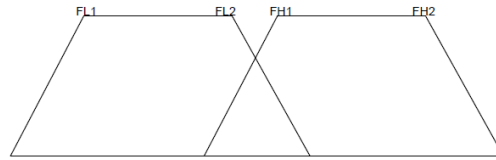


Fig.1 Frequency Diagram Attenuation

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

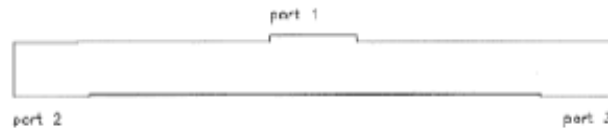


Fig.2 Port Description

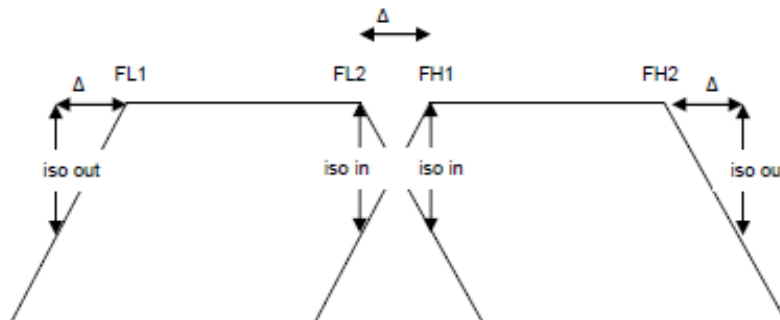


Fig.3 Frequency Diagram Isolation

Isolation port2 - port3

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

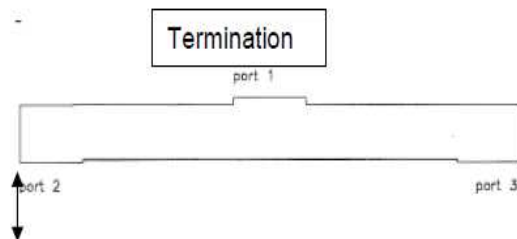


Fig.4 Isolation port 2 - port 3 setting

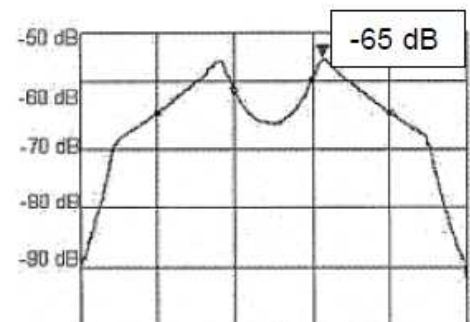


Fig.5 Isolation port 2 - port 3 diagram

Isolation Port 2 – Port 3 >65 dB

See fig. 5 for typical diagram of this measure