



WAVEGUIDE WR75 DUPLEXER

RX: 10.210-10.298GHz

TX: 10.560-10.648 GHz

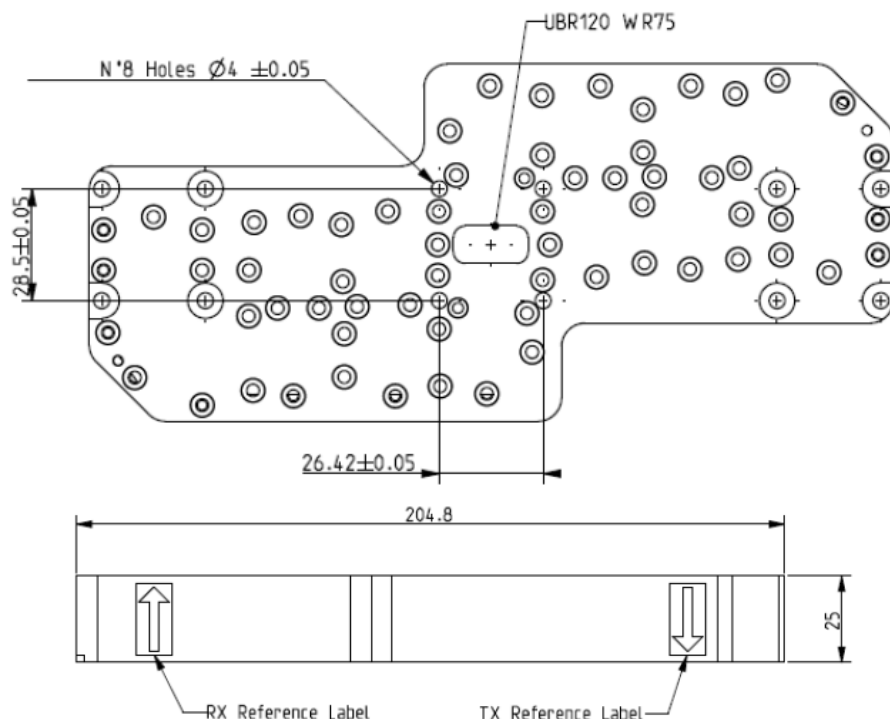
- Compact size and high power handle
- Very high rejection outdoor unit
- Compatible with ITU Standard
- Different frequency and flange available upon request
- Storage temperature -40~+80°C
- Operational Temperature: -30~+70 °C
- Operating Humidity: 0~90% relative
- Material: Aluminum
- Body finish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

Electrical Specification

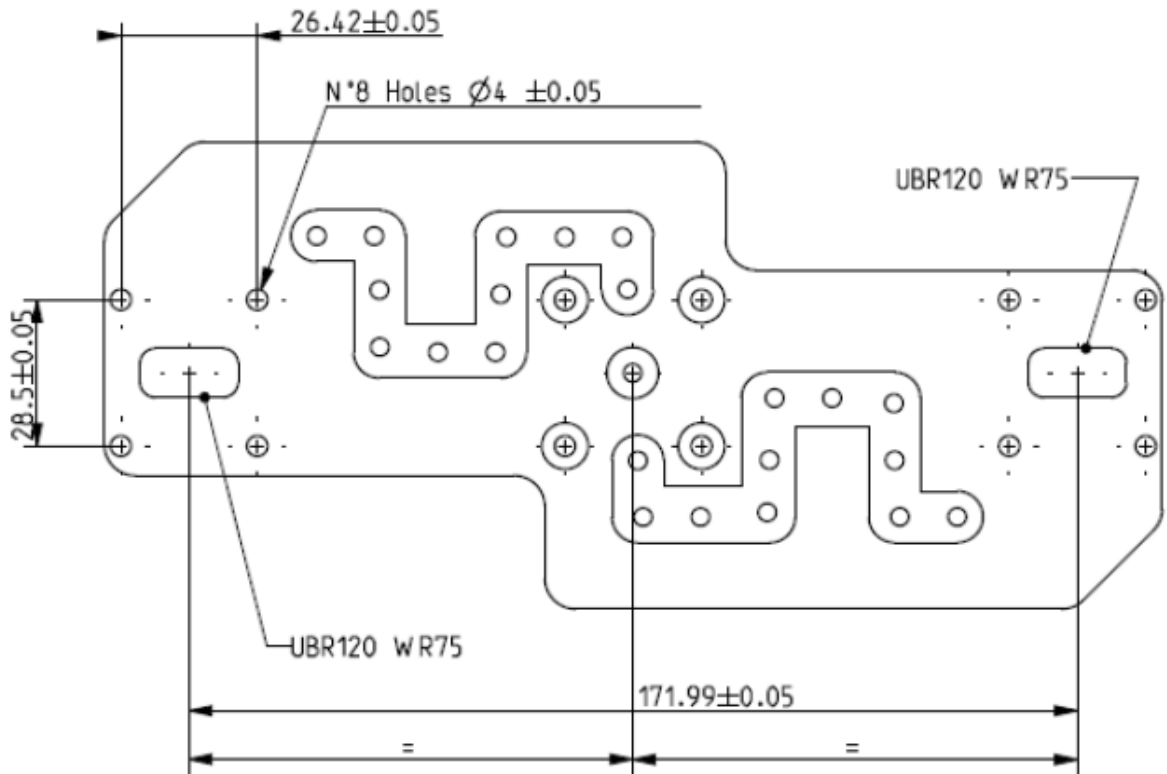
Frequency Range:	RX: 10.210-10.298GHz TX: 10.560-10.648GHz
Insertion Loss:	CH1: 1.5dB max CH2: 1.5dB max
Pass band Ripple:	0.5dB maximum
Power Handle:	200W
Isolation between port:	65dB
Flange:	WR75 CPRF
Impedance:	50 Ω

Environmental Specification

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



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The following TX and RX channel available upon request.

EXT	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			
L1	10150,00	10238,00	10500,00	10588,00	88,0	88,0	350
L2	10210,00	10298,00	10560,00	10648,00	88,0	88,0	350
	FH1	FH2	FL1	FL2			
H1	10500,00	10588,00	10150,00	10238,00	88,0	88,0	350
H2	10560,00	10648,00	10210,00	10298,00	88,0	88,0	350

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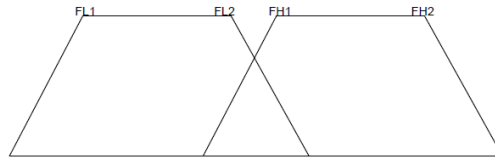


Fig.1 Frequency Diagram Attenuation

ISOLATION

Isolation in band (iso in) [Port 1 to the Port under test] in temperature:
 see table 1 (typical 65dB depending on P/N)
 Isolation out band (iso out) [Port 1 to the Port under test] > 40 dB



Fig.2 Port Description

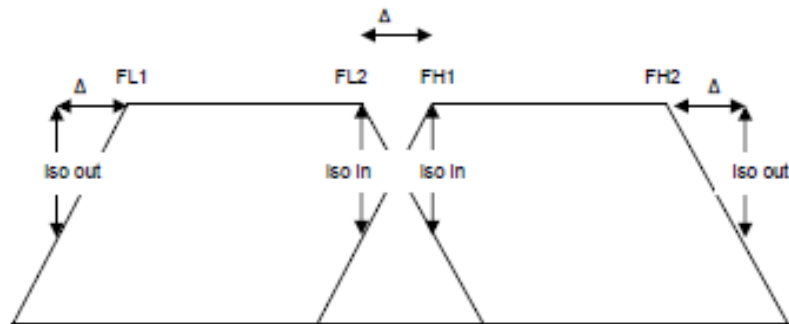


Fig.3 Frequency Diagram Isolation

Isolation port2 - port3

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

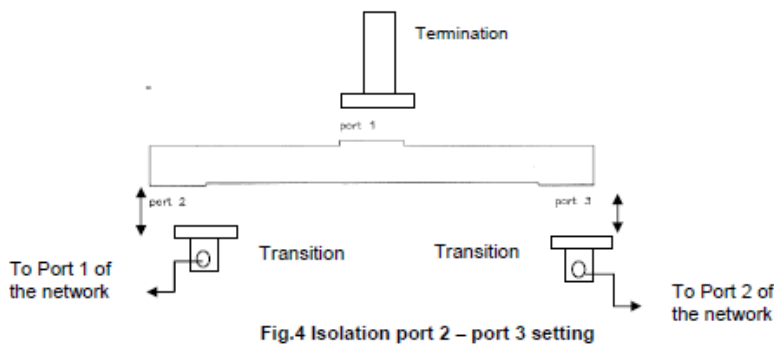


Fig.4 Isolation port 2 - port 3 setting

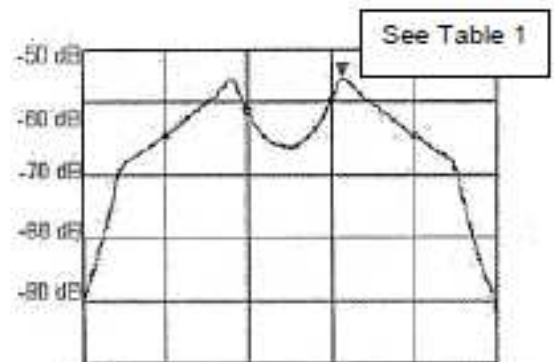


Fig.5 Isolation diagram

Isolation Port 2 - Port 3 > see Table 1 (typical 65dB depending on P/N)
 See fig. 5 for typical diagram of this measure.

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