

PRODUCT SPECIFICATION
WR75 Filter Combiner



Model Number : LU75FC-13028.6-27-59
Drawing Number : 00164-1-A

Frequency Band : 12.75-13.25 GHz.
 Centre Frequency, Fo : 13028.6 MHz
 Channel Bandwidth : 27 or 29.5 MHz
 Channel Separation : 59 MHz

Insertion Loss	Port 1 to 3	: < 0.9dB @ Fo	
	Port 2 to 3	: < 0.50dB outside	Fo ± 44.25 MHz
		: < 0.25dB outside	Fo ± 88.5 MHz
Insertion Loss Variation	Port 1 to 3	: < 0.2dB over	Fo ± 13 MHz
		: < 0.25dB over	Fo ± 15 MHz
Return Loss	Port 1	: > 24dB over	Fo ± 15 MHz
	Port 2	: > 24dB outside	Fo ± 44.25 MHz
Isolation	Port 1 to 2	: > 25dB over	Fo ± 15 MHz
		: > 40dB outside	Fo ± 44.25 MHz
Rejection	Port 1 to 3	: > 35dB outside	Fo ± 57 MHz
Group Delay Variation	Port 1 to 3	: < 3ns over	Fo ± 13 MHz
		: < 4ns over	Fo ± 15 MHz
	Port 2 to 3	: < 5.5ns outside	Fo ± 59 MHz
		: < 0.7ns outside	Fo ± 103 MHz
Power	Port 1 to 3	: 2KW CW	
	Port 2 to 3	: 5KW CW with forced air cooling	
Waveguide Size		: WR75 (WG17)	
Flanges		: PBR120	
Ambient Temperature		: 0 - 35°C	
Pressure		: 4 psi (no leaks)	
Finish		: Painted matt black	

