



POINT-TO-POINT

Standard Microwave Combiner 6-40 GHz

HIGH-PERFORMANCE POINT-TO-POINT MICROWAVE COMBINERS

Overview

The SMC family of standard microwave combiners are waveguide combiner/couplers that allow sharing a single antenna between two ODUs, with both ODUs using the same polarization. Vertical polarization is standard, but horizontal polarization may be used with the included polarization changer (except 6 GHz).

Both ODUs use direct mount slip fit waveguide connections with standard latches. The antenna connection can be direct mount slip fit (Standard models) or remote mount waveguide flange interface (-R option). The antenna mount versions utilize compression latches and bolts for increased strength, and are compatible with Trango -S2, -R2 and -R3 antenna models.

Highlights

- » V or H combiner for HP ODUs
- » Direct or remote antenna mount
- » Symmetrical and asymmetrical loss versions available
- » Heavy duty construction
- » Antenna latches and bolts for superior strength
- » Available in remote mount (-R) version with standard waveguide flange

Applications

- » Dual polarization 4+0 applications
- » Single polarization 2+0 applications
- » 1+1 hot standby and frequency diversity applications
- » Reuse of existing antennas for higher capacity with standard waveguide antenna port



Specifications

MODEL #	Frequency Range	Insertion Loss (dB max) ODU1	Insertion Loss (dB max) ODU2	- R Option Flange
SMC-06-3-HP	5.9-7.1 GHz	3.3	3.3	CPR137F/UDR70 (WR137)
SMC-78-3-HP	7.1-8.5 GHz	3.3	3.3	CPR112F/UDR84 (WR112)
SMC-11-3-HP	10.7-11.7 GHz	3.3	3.3	CPR90F/UDR100 (WR90)
SMC-13-3-HP	12.7-13.3 GHz	3.3	3.3	UBR120 (WR75)
SMC-15-3-HP	14.4-15.4 GHz	3.3	3.3	UBR140 (WR62)
SMC-18-3-HP	17.7-19.7 GHz	3.3	3.3	UBR220 (WR42)
SMC-23-3-HP	21.2-23.6 GHz	3.3	3.3	UBR220 (WR42)
SMC-26-3-HP	24.2-26.5 GHz	4.1	4.1	UBR220 (WR42)
SMC-28-3-HP	27.5-29.5 GHz	4.1	4.1	UBR320 (WR28)
SMC-32-3-HP	31.8-33.4 GHz	4.1	4.1	UBR320 (WR28)
SMC-38-3-HP	37.0-40.0 GHz	4.1	4.1	UBR320 (WR28)
SMC-06-6-HP	5.9-7.1 GHz	1.9	6.5	CPR137F/UDR70 (WR137)
SMC-78-6-HP	7.1-8.5 GHz	1.9	6.5	CPR112F/UDR84 (WR112)
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SMC-38-3-HP	37.0-40.0 GHz	4.1	8.0	UBR320 (WR28)
Return Loss (all models)				> 16 dB
ODU Isolation (all models)				> 20 dB
ENVIRONMENTAL				
Temperature	-40° to +65° C (Operating), -40° to +75° C (Storage)			
Sealing Pressure	5 psi			
RoHS Compliance	Yes			
MECHANICAL				
Size (including radii)	13.58" x 10.43" x 11.42" (34.5 x 26.5 x 29 cm)			
Weight (including radii)	26.55 lbs/12.04 kg			
Antenna Attachment	M8 Stainless Bolts (4) plus 4 Compression Latches			
Material	6061-T6 Aluminum (powder coated)			
Finish	Corrocoat White Powder Coat			



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