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Multi-band Combiner
Multi-band Combiners
FX3400 Series

FX3400NF Multi-Service Cross-Band Coupler, 138-512/746-960 MHz

- Allows for the combination/separation of any 138-512 MHz with 746-960 MHz signals
- Add a new VHF or UHF BDA or repeater to an existing 700 MHz public safety band, 800 MHz, 900 MHz DAS
- Enable sharing of feedlines and antennas
- High power handling for multi-service applications

Sinclair's FX3400 series cross-band couplers allow transmitters and receiversoperating in frequency bands between 138-960 MHz(VHF, UHF, 700 MHz public safety, 800 MHz, 900 MHz bands) to share a common feedline for a multi-service base station and to share a common antenna in a Distributed Antenna System (DAS). Sharing a feedline amongst multiple discrete operating systems, all using different frequency bands, simplifies installation and maintenance, while reducing cost, space and tower/rooftop loading. Sharing one common antenna between mulitple in-building systems, all using different frequency bands, will not only reduce installation and maintenance costs, but will also minimize the disruption to tenants and simplify new carriers to be added which enhances tenant appeal and retention.

Sinclair's cross-band couplers is ideal in expanding the functionality of Sinclair's SM300 and SM600 series antennas by enabling one antenna to service multiple and discrete wireless systems. With these cross band couplers, multiple radio systems can share the same antenna or can be added to service after the antenan is already installed.

The FX3400 series of cross-band couplers consist of low pass-band and high-pass filters with low insertion loss and high isolation. Each pass-band can handle 200W CW power. Although both low and high pass-bands are wideband, i.e. 138-512 MHz for the low pass-band and 746-960 MHz for the high pass-band, no field tuning is required for full band coverage.

www.sinctech.com

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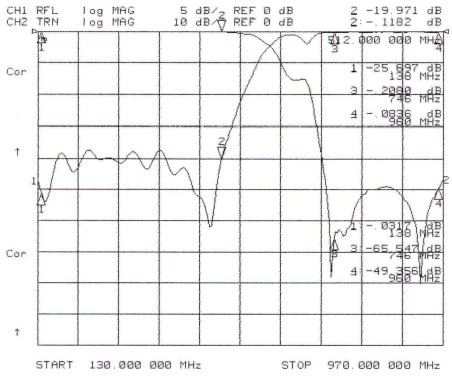
Electrical Specifications			
VSWR (max)		1.5:1	
Isolation (typ)	dB	40	*1
Connectors		N-Female	
Frequency Band (Low Pass)	MHz	138 to 512	
Frequency band (High Pass)	MHz	746 to 960	
Pass band insertion loss (Low pass)	dB	0.4	
Pass band insertion loss (High pass)	dB	0.4	
Power handling (Low pass)	W	200	*2
Power handling (High pass)	W	200	*3
Input/ Output Impedance	Ω	50	

Mechanical Specifications			
Weight	lbs (kg)	1 (0.45)	
Shipping dimensions	in (mm)	9x6x3 (229x152x76)	
Dimensions (L x W x H)	in (mm)	4.7x2.4x1.5 (119x61x38)	*4

Environmental Specifications			
Temperature range	°F (°C)	-40 to +140 (-40 to +60)	

Notes
*1 : Minimum
*2 : CW max
*3 : CW max
*4 : Connectors excluded



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