

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
- Enable sharing of feedlines and antennas
- High power handling for multi-service applications
- Can be used to add a new VHF/UHF BDA or repeater to an existing 700/800/900 MHz public safety band DAS

Sinclair's FX3400 series cross-band couplers allow transmitters and receivers to operate in frequency bands between 138-512 and 746-960 MHz, which means a common feed line and a common antenna can be shared for a multi-service radio system, such as for a Distributed Antenna System (DAS). It in turn helps simplifies installation and maintenance, while reducing cost, space and tower/rooftop loading, among other benefits.

Sinclair's cross-band couplers is ideal in expanding the functionality of Sinclair's SM300 and SM601 series antennas by enabling one antenna to service multiple wireless systems. With these cross band couplers, multiple radio systems can share the same antenna or can be added to service after the antenna 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. 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 so no field tuning is required for full band coverage.



www.sinctech.com

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Electrical Specifications

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

Mechanical Specifications

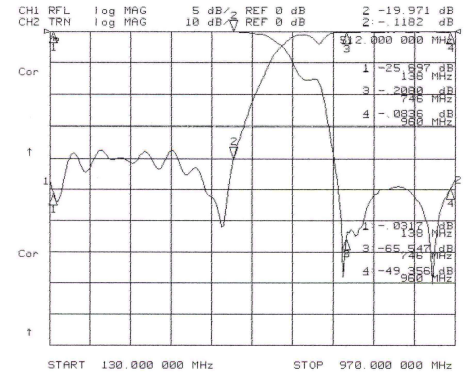
Dimensions (L x W x H)	in (mm)	4.7x2.4x1.5 (119x61x38)	*3
Weight	lbs (kg)	1 (0.45)	
Shipping dimensions	in (mm)	9x6x3 (229x152x76)	

Environmental Specifications

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

- *1 : CW max
- *2 : CW max
- *3 : Connectors excluded



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