



ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

830-843.5 MHz / 875-888.5 MHz
Cavity Duplexer
Part Number: AD836-881D238

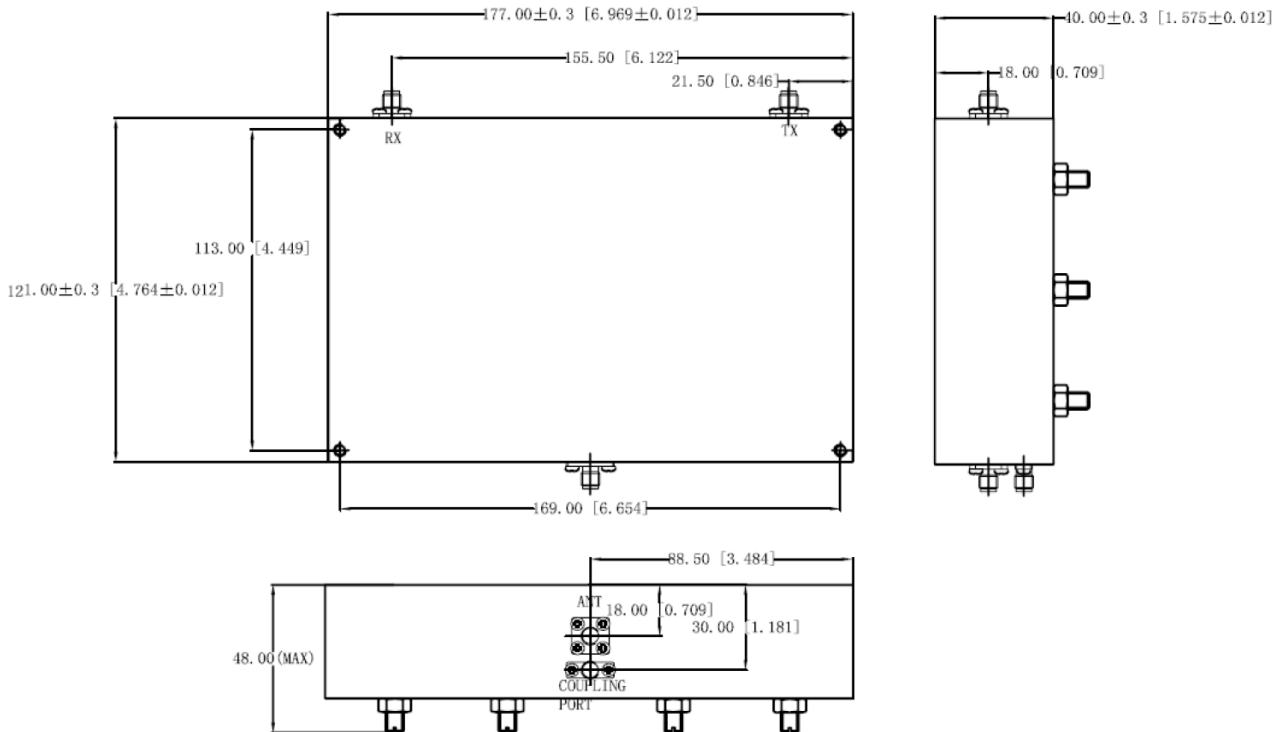


Characteristics	Band 1 (Rx)	Band 2 (Tx)
Frequency range:	830-843.5 MHz	875-888.5 MHz
Insertion loss:	≤1.0 dB	≤1.0 dB
Ripple:	≤0.2 dB(over any 1.25 MHz) ≤0.6 dB@(830-843.5 MHz)	≤0.2 dB(over any 1.25 MHz) ≤0.6 dB@(830-843.5 MHz)
Return loss:	≥20 dB	≥20 dB
Rejection:	≥70 dB@875-1000 MHz	≥70 dB 830-843.5MHz
	≥60 dB@80-800 MHz	≥60 dB@80-800 MHz
	≥60 dB@1-4 GHz	≥60 dB@1-4 GHz
Group delay:	20 ns max any 1.25 MHz	
Coupling port:	-30 dB, RX/TX(+/-0.5 dB)	
Power Handling:	50 Watts	50 Watts
Impedance:	50 Ohms	50 ohms

Mechanical	
Mounting Method:	Threaded Mounting Holes
Connector Type:	SMA (F)
Dimensions:	6.96" x 4.76" x 1.57" in

Environmental	
Operating Temperature:	-40 to +70 deg.C
Storage Temperature:	-50 to +90 deg.C

Outline Drawing:



Tolerance: +/-0.01 inches [+/- 0.3mm]

Angles: +/- 1 Deg.

*Tolerance as shown unless otherwise specified in the datasheet electrical specification tables above.

*When max dimensions are called out the above tolerances do not apply as long as it is under the max call out.

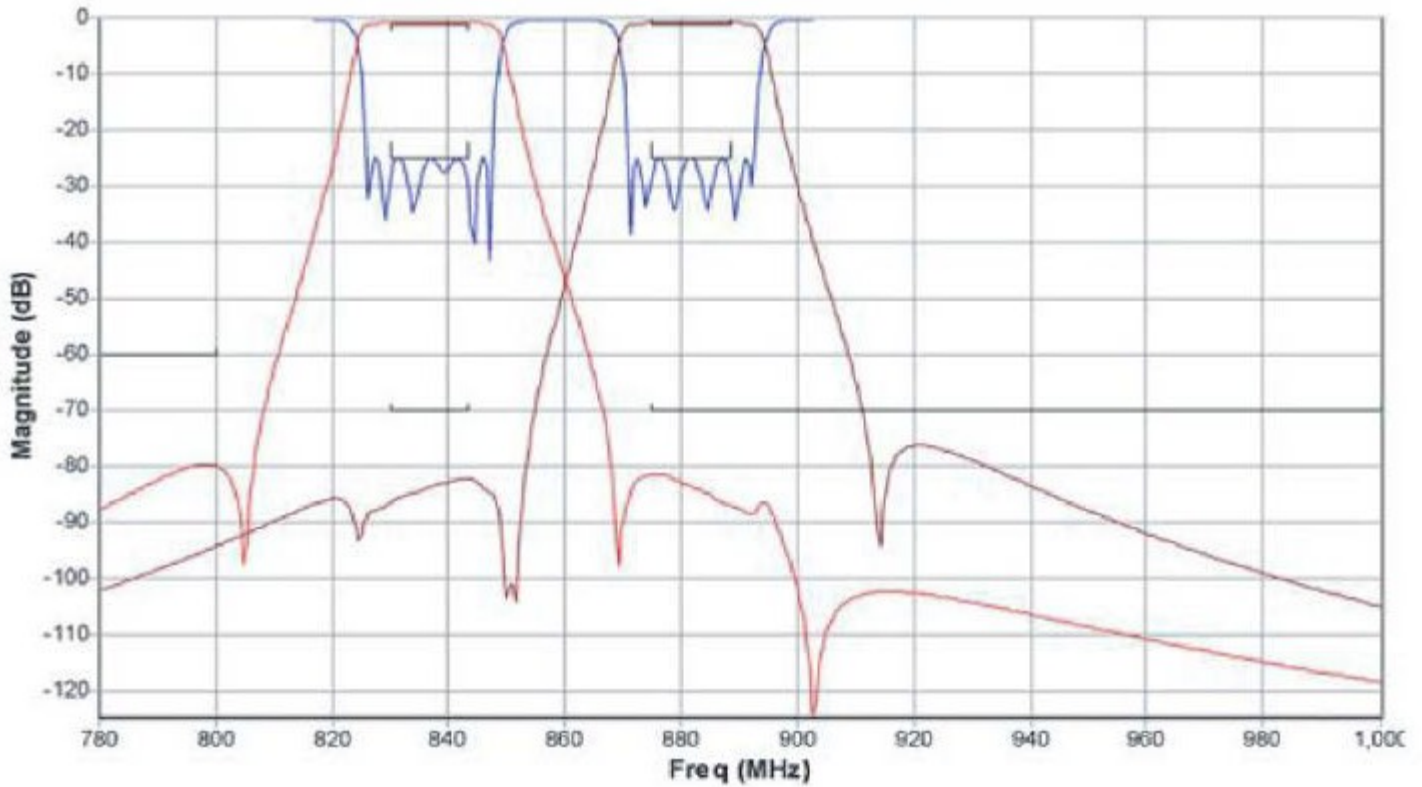


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Simulation Plot:



Note: This is a simulation Plot. Actual response plot might differ once product is manufactured