



ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

2180-2520 MHz / 4380-5020 MHz Cavity Duplexer

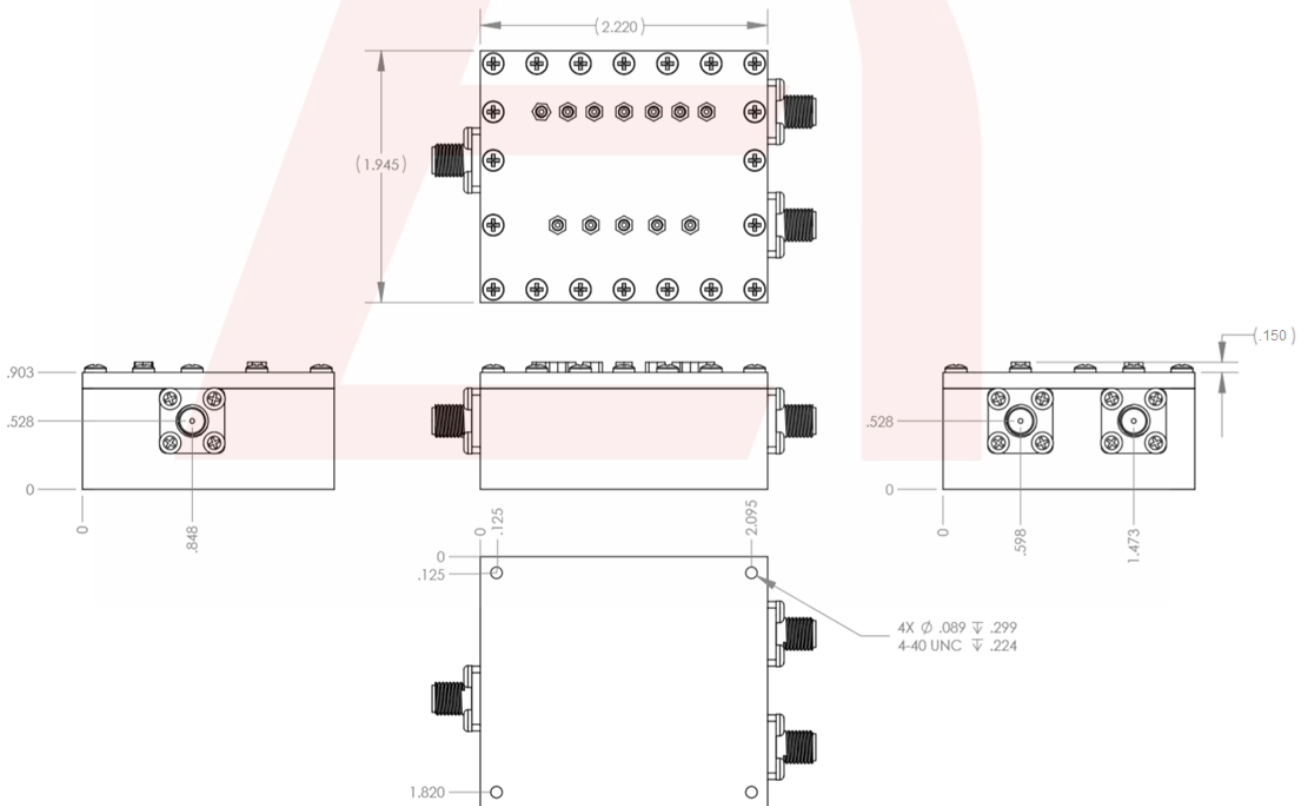
Part Number: AE2350-4700DB5511



<u>Characteristics</u>	<u>Band 1</u>	<u>Band 2</u>
Center Frequency:	2350 MHz	4700 MHz
Passband:	2180-2520 MHz	4380-5020 MHz
Bandwidth:	340 MHz	640 MHz
Passband Return Loss:	>=15 dB	>=15 dB
Passband Insertion Loss:	<= 0.3 dB	<= 0.3 dB
Passband Ripple:	0.2 dB	0.2 dB
Input / Output Impedance:	50 Ohms	50 Ohms
Isolation:	>40 dB	>40 dB
Power Handling:	25 Watt	25 Watt

<u>Mechanical</u>	
Mounting Method:	4-40 Threaded Mounting Holes
Connector Type:	SMA (F)
Dimensions:	2.22 x 1.945 x 1.053"
<u>Environmental</u>	
Operating Temperature:	-40 to +70 deg.C
Storage Temperature:	-55 to +85 deg.C
Shock:	20 G. 11 ms
Vibration:	20 G. 5 to 200 Hz

Outline Drawing:



2 decimal places: +/-0.01 inches [+/- 0.3mm]
3 decimal places: +/- 0.005 inches [+/- 0.13mm]
Angles: +/- 1 Deg.

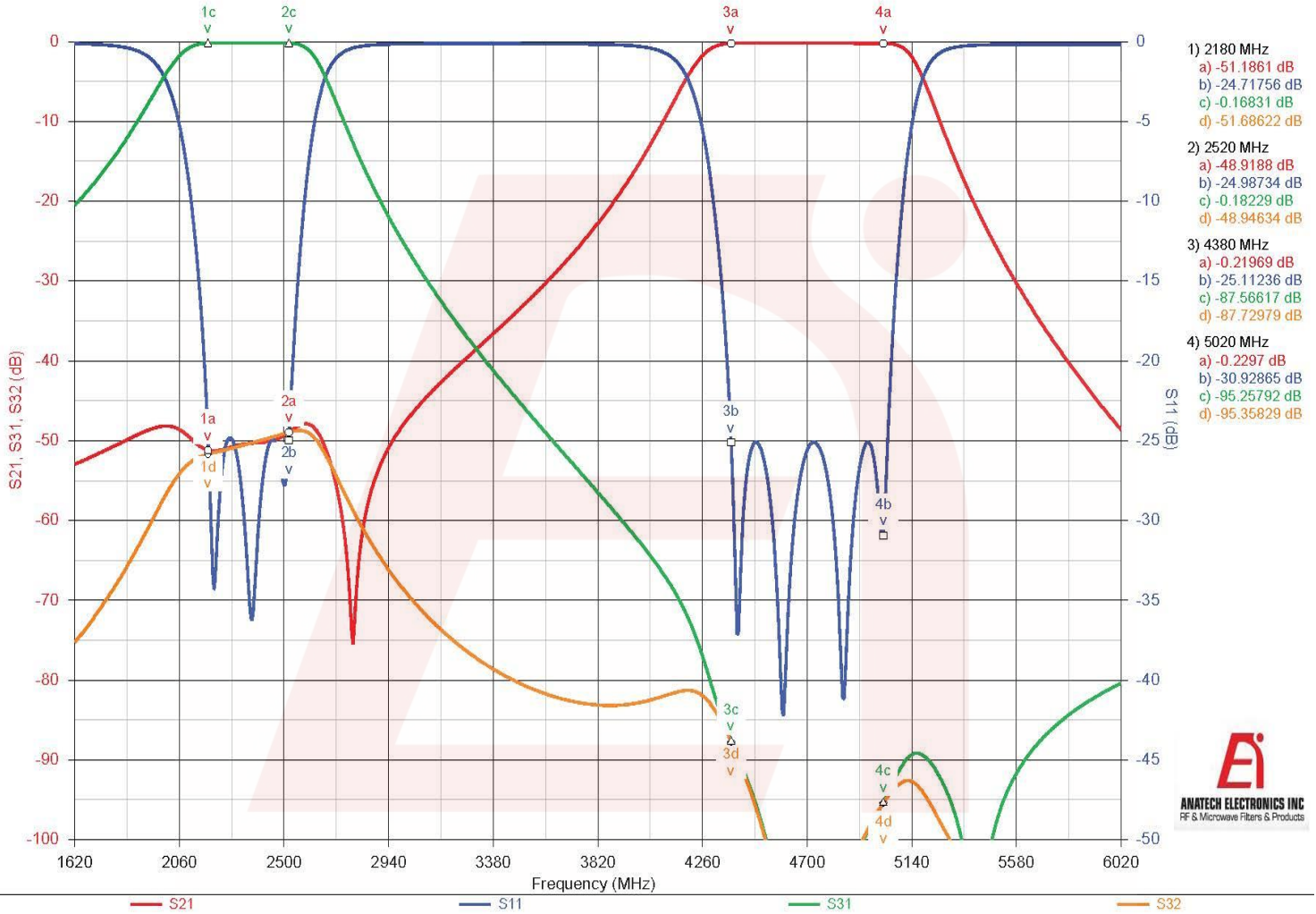
DS-DB5511-07212021-Rev0

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



Simulated Response Plot

2180-2520 4380-5020 MHz Duplexer



- 1) 2180 MHz
 - a) -51.1861 dB
 - b) -24.71756 dB
 - c) -0.16831 dB
 - d) -51.68622 dB
- 2) 2520 MHz
 - a) -48.9188 dB
 - b) -24.98734 dB
 - c) -0.18229 dB
 - d) -48.94634 dB
- 3) 4380 MHz
 - a) -0.21969 dB
 - b) -25.11236 dB
 - c) -87.56617 dB
 - d) -87.72979 dB
- 4) 5020 MHz
 - a) -0.2297 dB
 - b) -30.92865 dB
 - c) -95.25792 dB
 - d) -95.35829 dB



Note: This is a simulated response plot. Actual results may differ.