



# 1450-1650 MHz / 4000-6000 MHz LC Duplexer

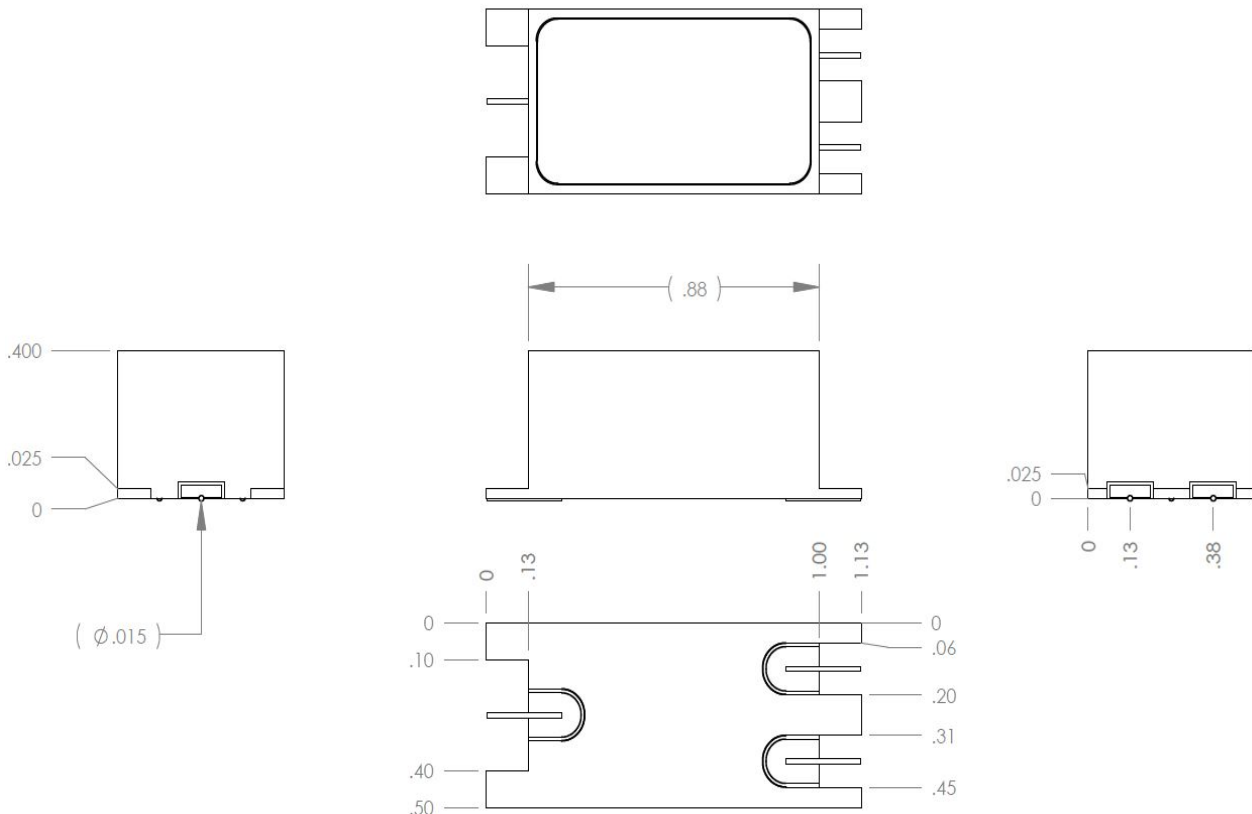


**ANATECH ELECTRONICS INC**  
RF & Microwave Filters & Products

**Part Number: AE1550-5000DB5489**

<u>Characteristics</u>	<u>Band 1(RX)</u>	<u>Band 2(TX)</u>	<u>Mechanical</u>	
<b>Passband:</b>	1450-1650 MHz	4000-6000 MHz	<b>Mounting Method:</b>	Threaded Holes
<b>Bandwidth:</b>	200 MHz	2000 MHz	<b>Connector Type:</b>	SMT
<b>Return Loss:</b>	15 dB Min.	15 dB Min.	<b>Dimensions:</b>	1.13 x 0.5 x 0.4 in.
<b>Insertion Loss:</b>	1.0 dB Max.	1.0 dB Max.	<u>Environmental</u>	
<b>Isolation:</b>	40 dB Min.	40 dB Min.	<b>Operating Temperature:</b>	-40 to +70 deg.C
<b>Power Handling:</b>	10 Watts	10 Watts	<b>Storage Temperature:</b>	-55 to +85 deg.C
<b>Input / Output Impedance:</b>	50 Ohms	50 Ohms	<b>Shock:</b>	10 G. 11ms
			<b>Vibration:</b>	10 G. 5 to 200Hz

## Outline Drawing:



Tolerance:  $\pm 0.01$  inches [ $\pm 0.3$ mm]

Angles:  $\pm 1$  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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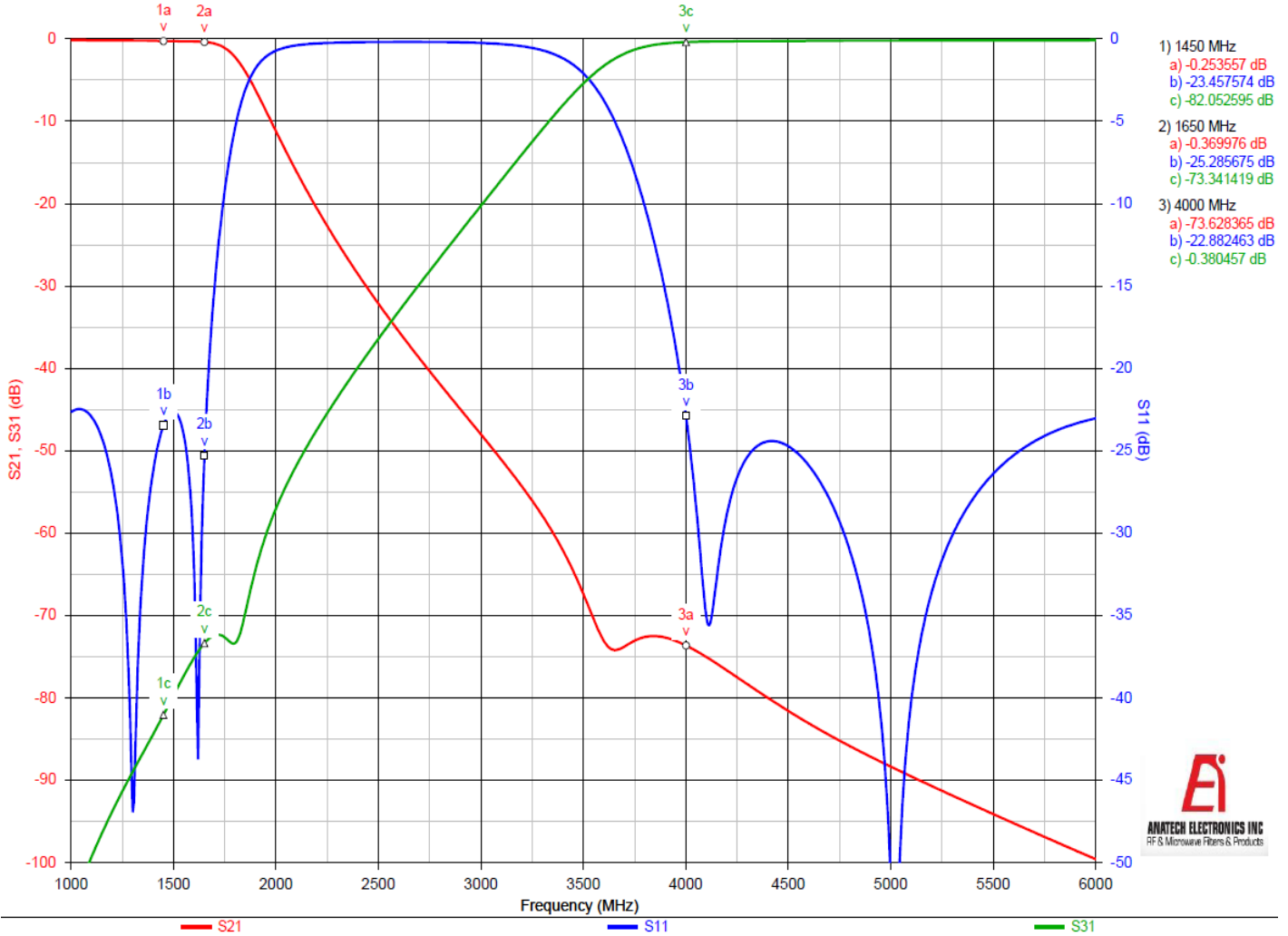
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**Simulation Plot:**

RFQ-20191030-DIP-1650-4000 MHz



- 1) 1450 MHz
  - a) -0.253557 dB
  - b) -23.457574 dB
  - c) -82.052595 dB
- 2) 1650 MHz
  - a) -0.369976 dB
  - b) -25.285675 dB
  - c) -73.341419 dB
- 3) 4000 MHz
  - a) -73.628365 dB
  - b) -22.882463 dB
  - c) -0.380457 dB



Note: This is a simulated response plot. Actual performance might differ.

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