



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

**806-824 MHz / 851-869 MHz  
Cavity Duplexer  
Part Number: AD815-860D349**

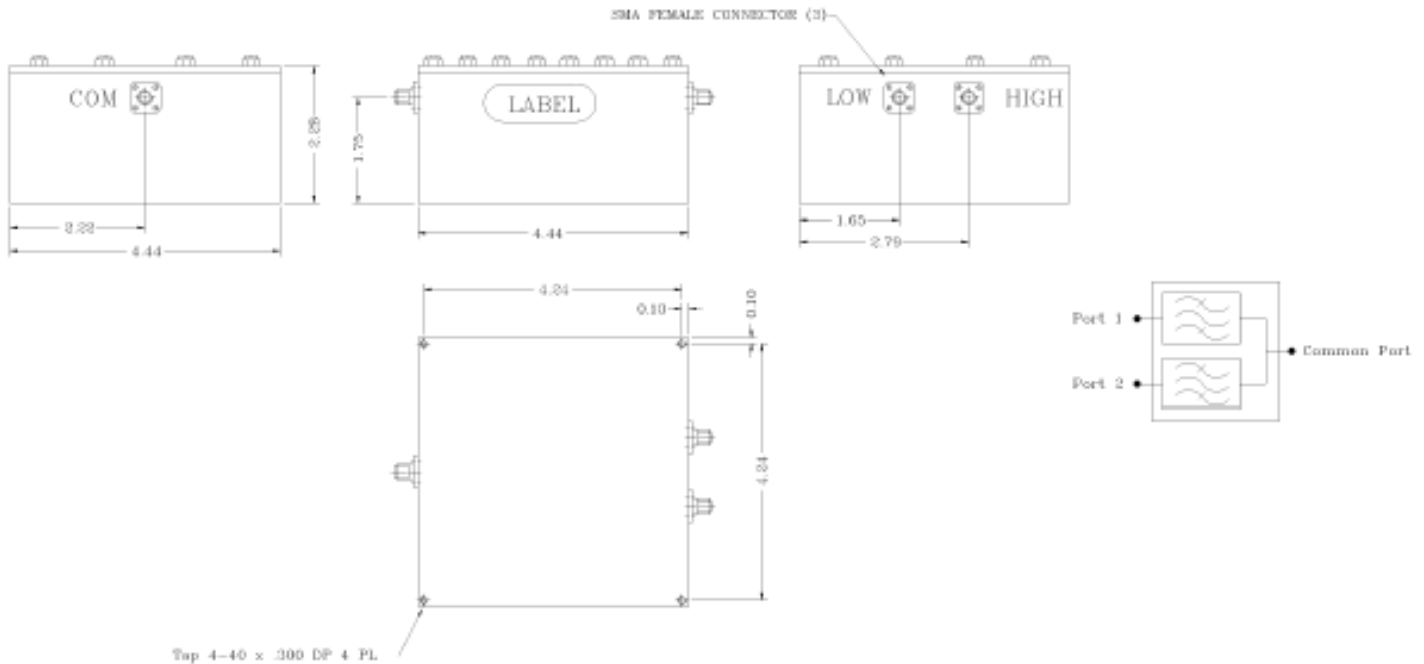


<u>Characteristics</u>	<u>Band 1</u>	<u>Band 2</u>
<b>Passband:</b>	806-824 MHz	851-869 MHz
<b>Bandwidth:</b>	18 MHz	18 MHz
<b>Passband Return Loss:</b>	17 dB	17 dB
<b>Passband Insertion Loss:</b>	< 1.1 dB	< 1.1 dB
<b>Passband Ripple:</b>	< 0.3 dB	< 0.3 dB
<b>Input / Output Impedance:</b>	50 Ohms	50 Ohms
<b>Isolation:</b>	90 dB	90 dB
<b>Power Handling:</b>	20 Watts	20 Watts

<u>Mechanical</u>	
<b>Mounting Method:</b>	Threaded Mounting Holes
<b>Connector Type:</b>	SMA (F)
<b>Dimensions:</b>	4.44 X 4.44 X 2.28 inches

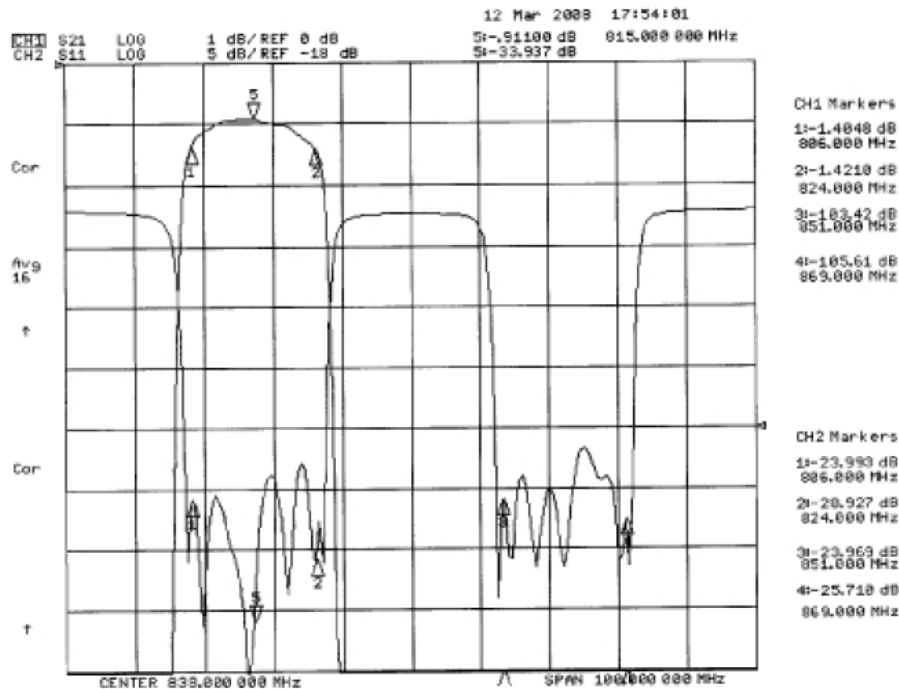
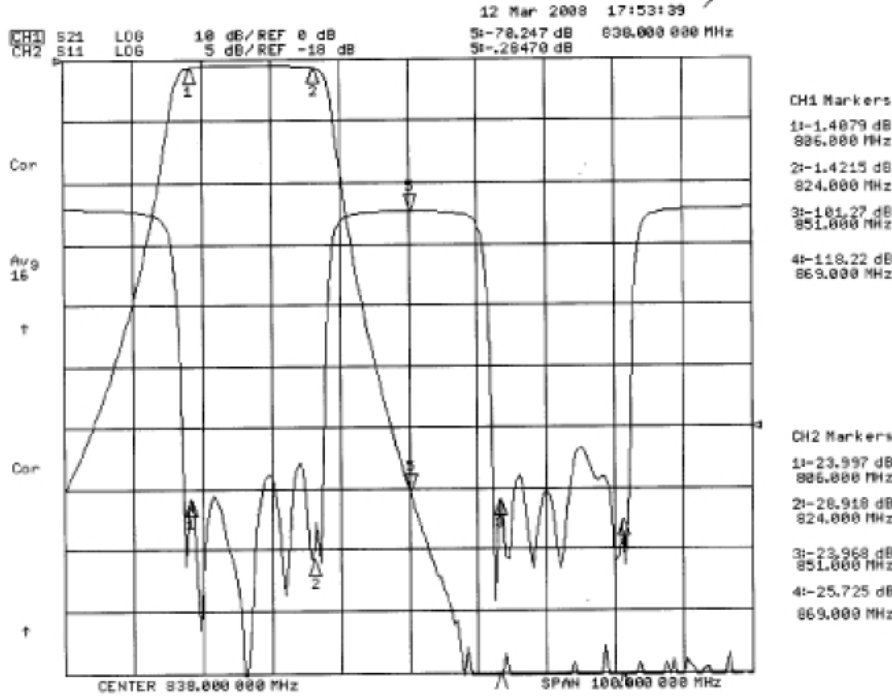
<u>Environmental</u>	
<b>Operating Temperature:</b>	-40 to +70 deg.C
<b>Storage Temperature:</b>	-50 to +90 deg.C

**Outline Drawing:**





**Response Plots:**



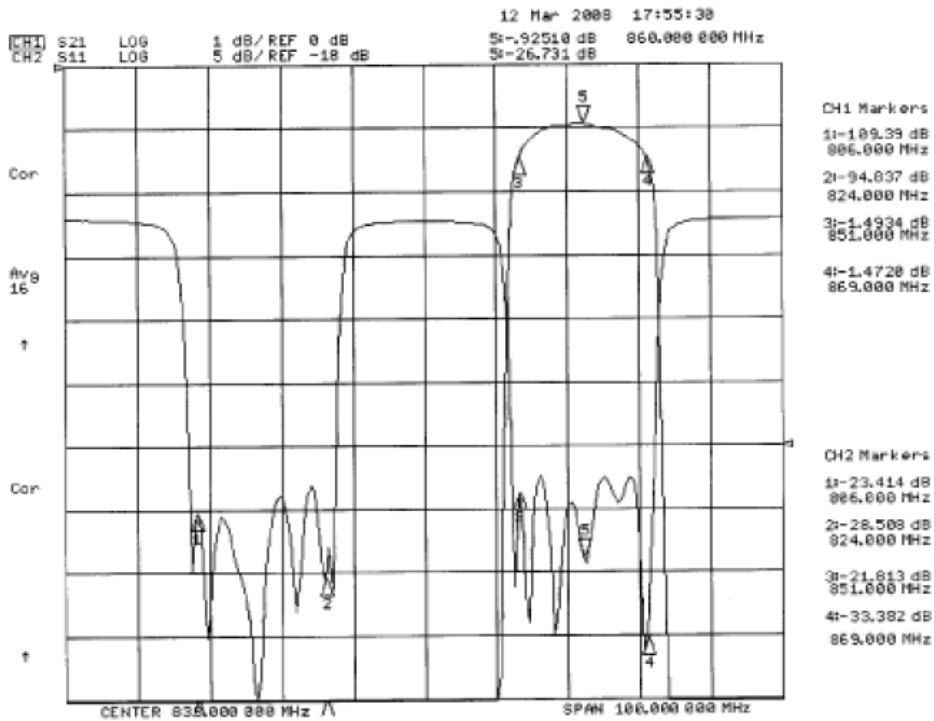
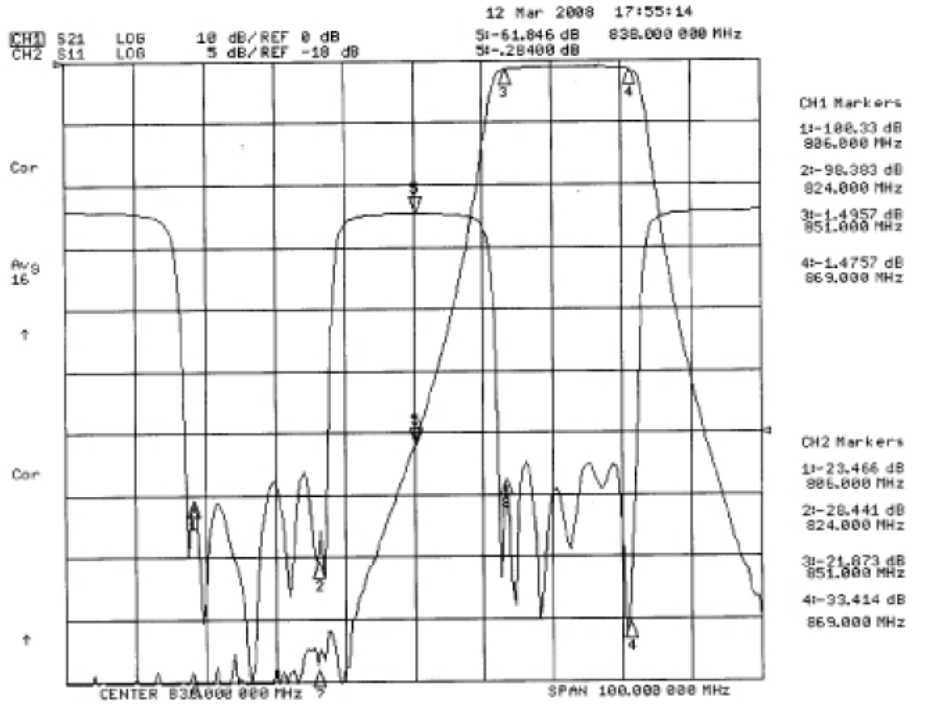


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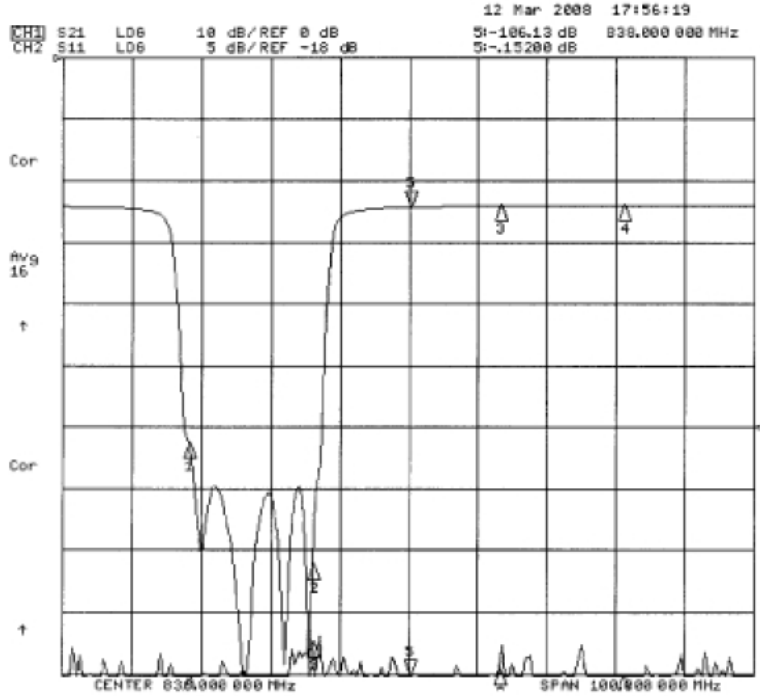


**Response Plots:**



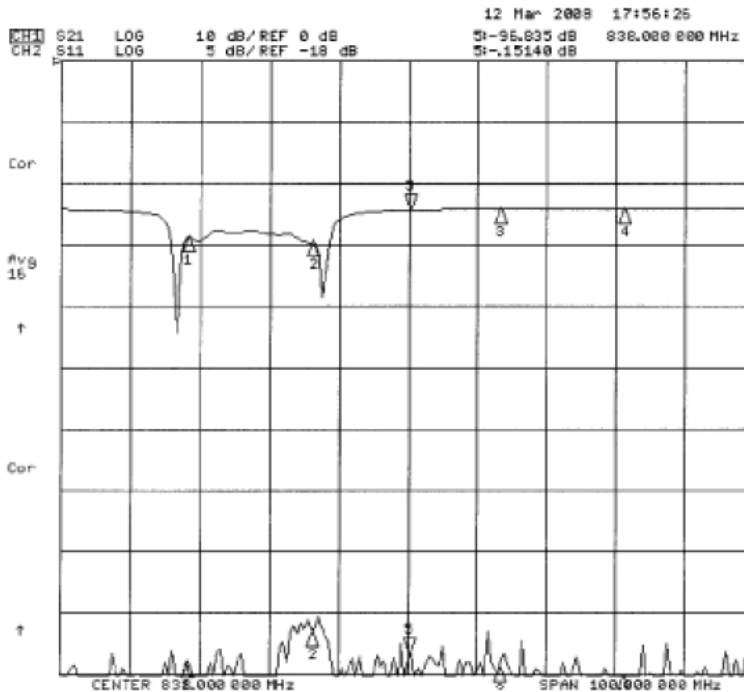


**Response Plots:**



- CH1 Markers
- 1:-112.83 dB  
806.000 MHz
  - 2:-94.866 dB  
824.000 MHz
  - 3:-99.402 dB  
851.000 MHz
  - 4:-106.71 dB  
869.000 MHz

- CH2 Markers
- 1:-19.290 dB  
806.000 MHz
  - 2:-29.127 dB  
824.000 MHz
  - 3:-061.90 dB  
851.000 MHz
  - 4:-065.20 dB  
869.000 MHz



- CH1 Markers
- 1:-98.196 dB  
806.000 MHz
  - 2:-93.218 dB  
824.000 MHz
  - 3:-98.812 dB  
851.000 MHz
  - 4:-101.34 dB  
869.000 MHz

- CH2 Markers
- 1:-2.2885 dB  
806.000 MHz
  - 2:-2.7370 dB  
824.000 MHz
  - 3:-05980 dB  
851.000 MHz
  - 4:-06490 dB  
869.000 MHz