



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

# 4520 / 4840 MHz Cavity Duplexer

## Part Number: AE4520-4840DB5447



<u>Characteristics</u>	<u>Band 1 (ANT-Rx)</u>	<u>Band 2 (ANT-Tx)</u>
<b>Passband:</b>	4400 - 4640 MHz	4740 - 4940 MHz
<b>Bandwidth:</b>	240 MHz	200 MHz
<b>Return Loss:</b>	18 dB Min	18 dB Min
<b>Ripple:</b>	0.25 dB Max	0.25 dB Max
<b>Insertion Loss:</b>	1.25 dB Max	1.25 dB Max
<b>Input / Output Impedance:</b>	50 Ohms	50 Ohms
<b>Rejection:</b>	70 dB @ 4740 – 4940 MHz	70 dB @ 4400 – 4640 MHz
<b>Isolation:</b>	70 dB Min	70 dB Min
<b>Power Handling:</b>	20W Max	
<b>ROHS Compliant</b>	Yes	

<u>Mechanical</u>	
<b>Mounting Method:</b>	4-40 Threaded Holes
<b>Connector Type:</b>	SMA (F)
<b>Dimensions:</b>	5.67 x 1.38 x 1.10 In

<u>Environmental</u>	
<b>Operating Temperature:</b>	-40 to +70 deg.C
<b>Storage Temperature:</b>	-55 to +85 deg.C
<b>Shock:</b>	20G for 11msec half sine wave, 3 axis both directions
<b>Vibration:</b>	20G. 5 to 200 MHz

### Outline Drawing:

