



ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

0.5 – 5.5 GHz / 7.5 – 18.0 GHz

Suspended Substrate Diplexer

Part Number: AE5500-7500LDP5446

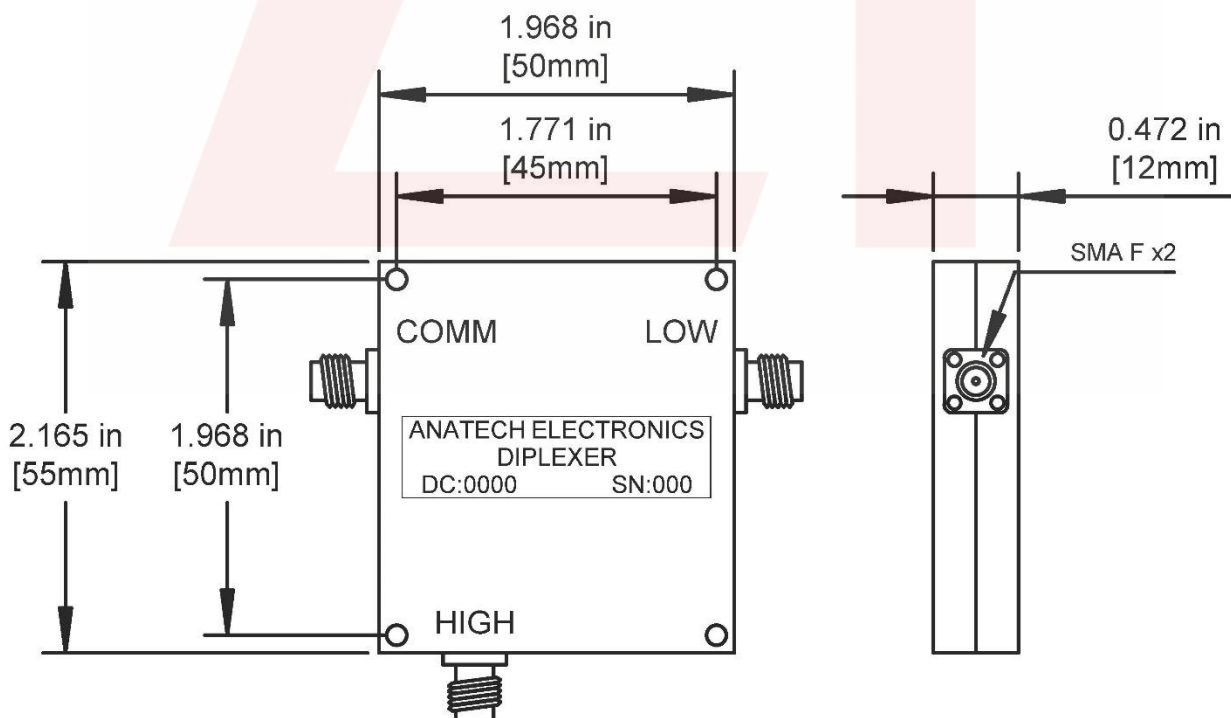


<u>Characteristics</u>	<u>Band 1</u>	<u>Band 2</u>
Passband:	0.5 – 5.5 GHz	7.5 – 18.0 GHz
Passband Insertion Loss:	0.52 dB Max @ 1 GHz 1.0 dB Max @ 0.5-5.5 GHz	2.8 Max @ 7.5-18 GHz
VSWR:	2:1	
Cross over Frequency	6 GHz	
Cross over Loss	6 dB Max	
Slope of Passage Characteristics	0.5 dB Max/20 MHz @ 0.5-6 GHz	0.5 dB Max/20 MHz @ 6-18 GHz
Input / Output Impedance:	50 Ohms	
Power Handling:	10 W CW Max	

<u>Mechanical</u>	
Connector Type:	SMA (F)
Dimensions:	2.165 x 1.968 x 0.472 in 55 x 50 x 12 mm

<u>Environmental</u>	
Operating Temperature:	-20°C to +50°C
Storage Temperature:	-40°C to +60°C
Shock:	10 G. 11ms
Vibration:	10 G. 5 to 2000 Hz
Relative Humidity	95% RH

Outline Drawing:



DS-LDP5446-12062024-Rev3



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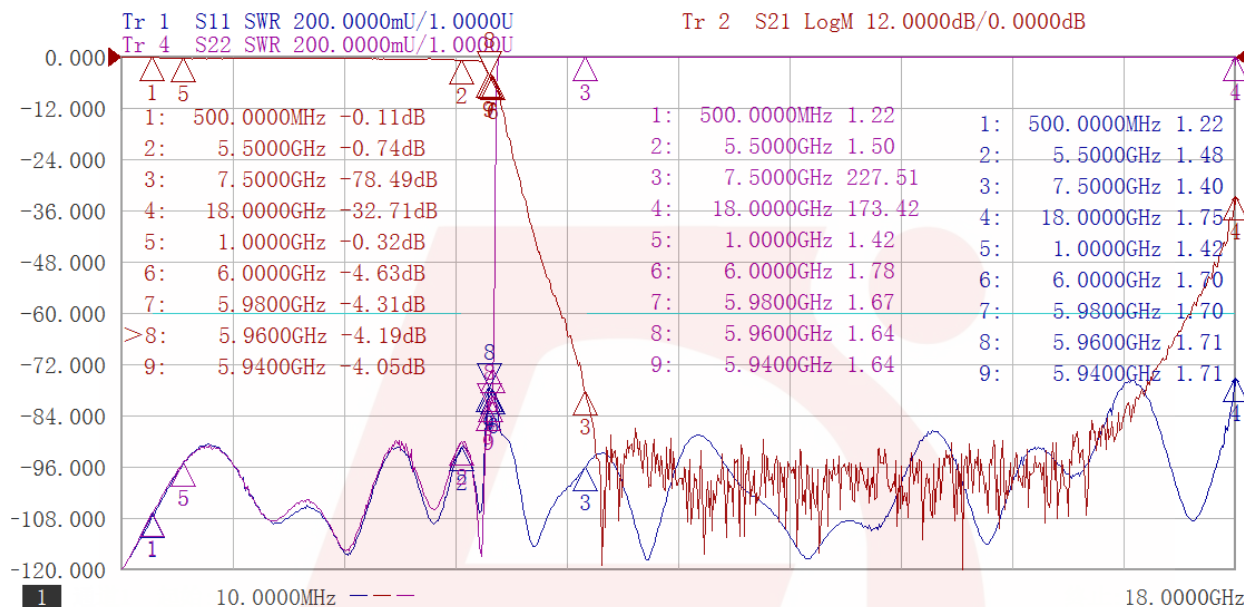
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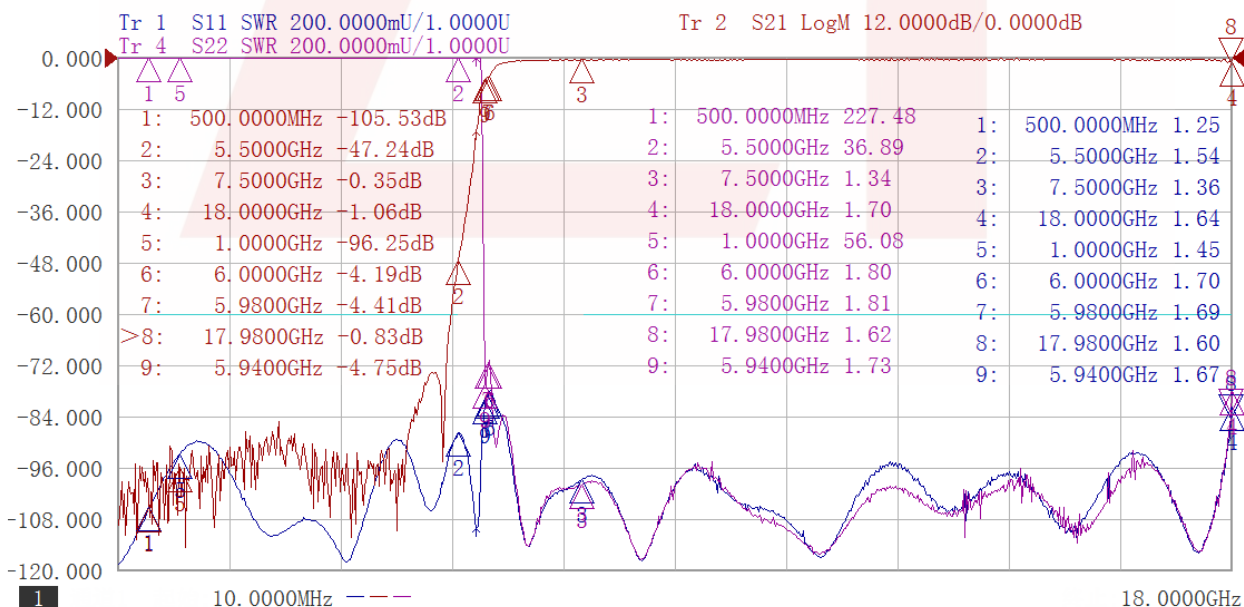
Response Plot:

AE5500-7500LDP5446

LOW BAND



HIGH BAND



DS-LDP5446-12062024-Rev3