



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

# 1525-1559 MHz / 1625.6-1675 MHz Cavity Duplexer

**Part Number: AE1542-1650DB5469**

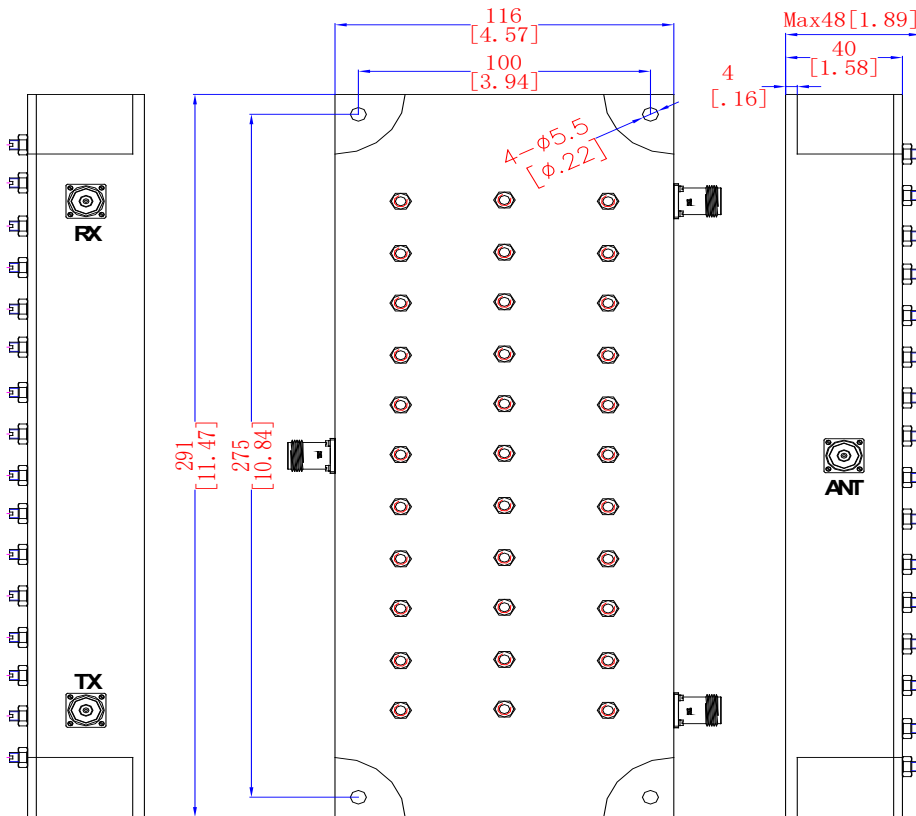


Characteristics	Band 1 (RX)	Band 2 (TX)
Passband:	1525-1559 MHz	1625.6-1675 MHz
Bandwidth:	34 MHz	49.4 MHz
Insertion Loss:	≤ 1.0dB	≤ 1.0dB
Ripple:	≤ 0.5dB	≤ 0.5dB
Return Loss:	≥ 15dB	≥ 15 dB
Isolation:	≥ 60dB	≥ 60dB
Input / Output Impedance:	50 Ohms	50 Ohms
Power Handling (CW):	100 Watts	100 Watts
Port Sign:	Port 1:ANT ; Port 2: Rx ; Port 3: Tx	

Mechanical	
Mounting Method:	Through Holes
Connector Type:	TNC (F)
Dimensions:	11.47 x 4.57 x 1.89 inches

Environmental	
Operating Temperature:	-40 to +70deg.C
Storage Temperature:	-55 to +85deg.C
Shock:	20 G. 11ms
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.

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