

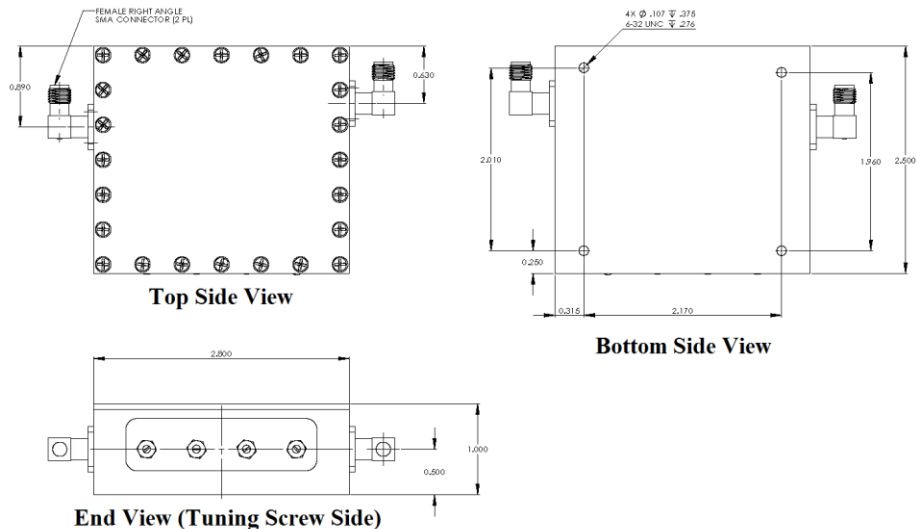
## Specification for a Compline Bandpass Filter MtronPTI P/N: 9429R

### I. General & Electrical Requirements:

1. Center Frequency ( $F_0$ ): 1621.25MHz
2. 1dB Bandwidth: 10.5MHz minimum (1616.0MHz to 1626.5MHz)
3. Insertion Loss (@  $F_0$ ): 1.0dB maximum
4. Return Loss (within 1616.0MHz to 1626.5MHz): 14.0dB minimum
5. Attenuation (ref. to IL @  $F_0$ )
  - DC to 1559.0MHz: 55dB minimum
  - 1559MHz to 1585MHz: 36dB minimum
  - 1585.0MHz to 1605.0MHz: 18dB minimum
  - 1666MHz to 2500MHz: 28dB minimum
6. Operating Power Level:  $\leq +30$ dBm (1-watt) CW, 10-watts peak (10% duty cycle)
7.  $Z_{IN}/Z_{OUT}$ : 50 $\Omega$  nominal

### II. Environmental & Physical Requirements:

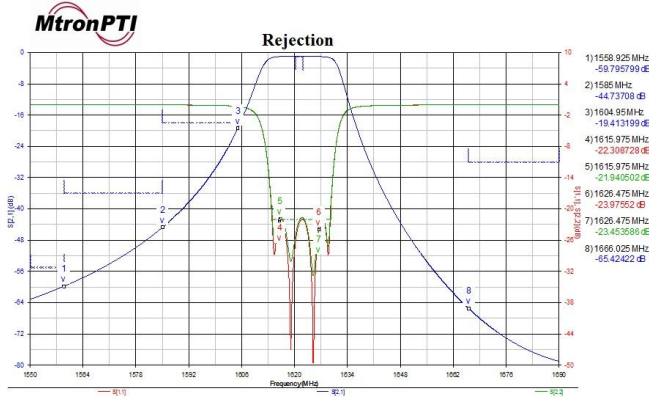
1. Temperature Range:
  - Operating: -40°C to +85°C
  - Storage: -55°C to +95°C
2. Shock: Per MIL-STD-810(G), Method 516.6, Procedure VI
3. Vibration: Per MIL-STD-810(G), Method 514.6, Category 9
4. Altitude: Operational to 40,000 feet
5. Package:
  - Size: 2.800" (L) x 2.500" (W) x 1.000" (H)
  - Excluding connectors and tuning screws (See Drawing)
  - Connectors: Right Angle SMA-Female (2 places)
  - Materials:
    - Filter Body: Machined aluminum
    - Filter Finish: Silver Plated. Per ASTM B 700/MIL-C-26074, 0.2 to 0.3 mil Electroless Ni, 0.3minimum Silver plate
  - Weight: < 9-ounces





## Specification for a Comblines Bandpass Filter MtronPTI P/N: 9429R

### III. Design Simulation Plots:



### IV. Datasheet Revision Table:

Date	Rev.	Author	Details of Revision
03/08/13	0	BRM	Original Release.