

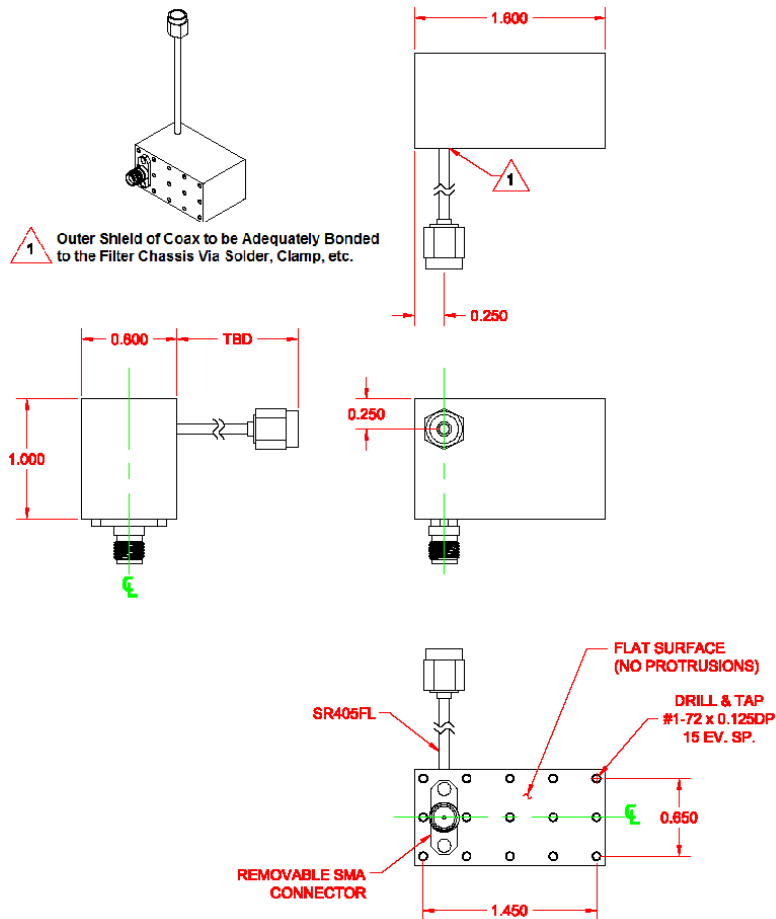
## Specification for a 5.125GHz C-Band Bandpass Cavity Filter MtronPTI P/N UF9410

### I. General & Electrical Requirements:

1. Center Frequency ( $F_{ON}$ ): 5.125GHz
2. Passband: 4.400GHz to 5.850GHz
3. Passband Insertion Loss (excludes cable losses):  $\leq 1.0\text{dB}$  (0.8dB typical at band edges with proposed package)
4. Passband VSWR: 1.5: 1 maximum
5. Rejection:
  - DC to 4.215GHz: 20dB minimum, 40dB nominal
  - 6.235GHz to 10.000GHz: 20dB minimum, 40dB nominal (no spurs before 10GHz)
6. Input Power Level: 1-watt minimum
7.  $Z_{IN}/Z_{OUT}$ : 50 $\Omega$  nominal

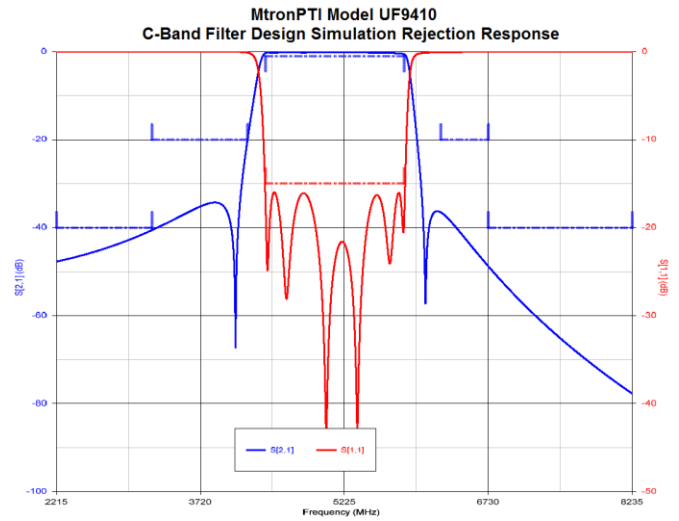
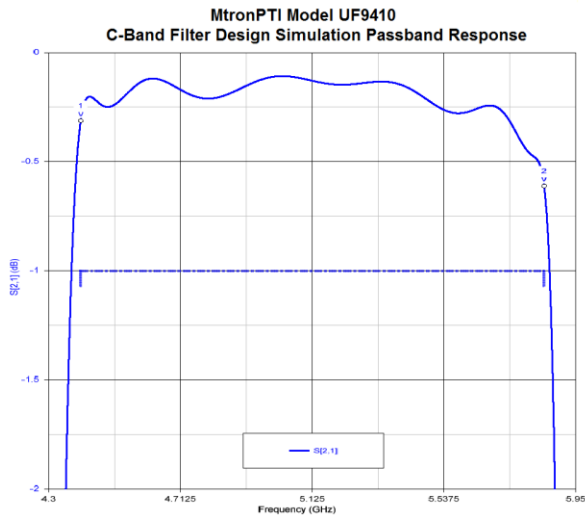
### II. Environmental & Physical Requirements:

1. Temperature:
  - Operating: -45°C to +85°C
  - Storage: -55°C to +125°C
2. Package: Per Figure 1:



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### III. Design Simulations Plot:



### IV. Datasheet Revision Table:

Date	Rev.	Author	Details of Revision
7/13/12	0	BRM	Original Release.