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Specification for an E-GSM Cavity Duplexer Filter MtronPTI P/N UF9388R

I. General & Electrical Requirements:

1. R_X
Passband: 880MHz - 915MHz
Insertion Loss: 0.6dB maximum
VSWR: 1.3:1 Maximum
Rejection (925MHz to 960MHz): 50dB minimum
2. T_X
Passband: 925MHz - 960MHz
Insertion Loss: 0.8dB maximum
VSWR: 1.3:1 Maximum
Rejection (880MHz to 915MHz): 50dB minimum
Power Handling: 50-watts CW average, 400-watts peak
3. Z_{IN}/Z_{OUT} : 50 Ω nominal (all ports)

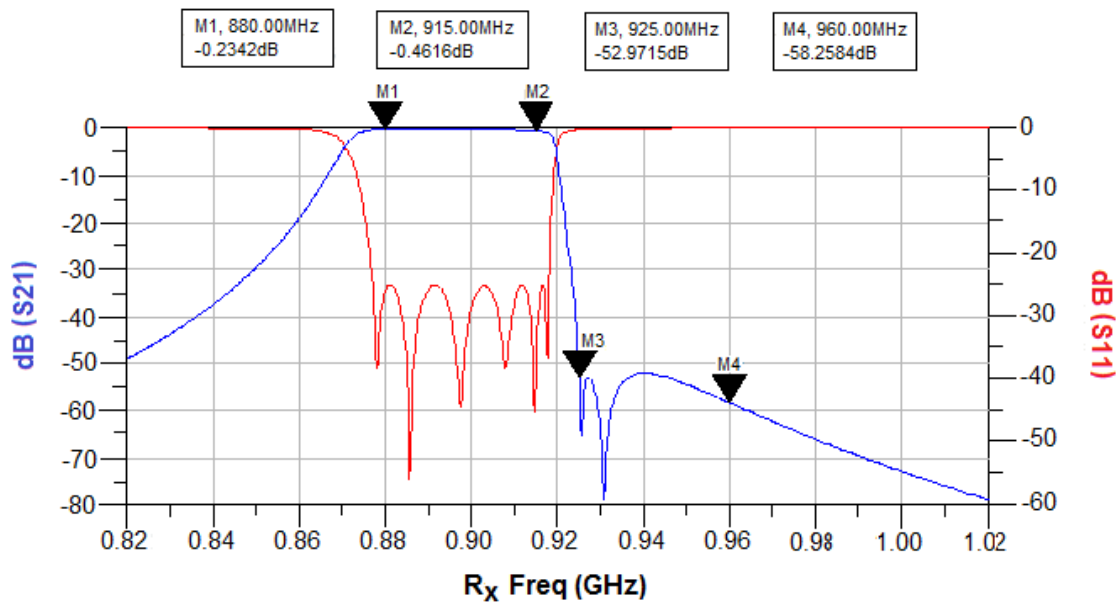
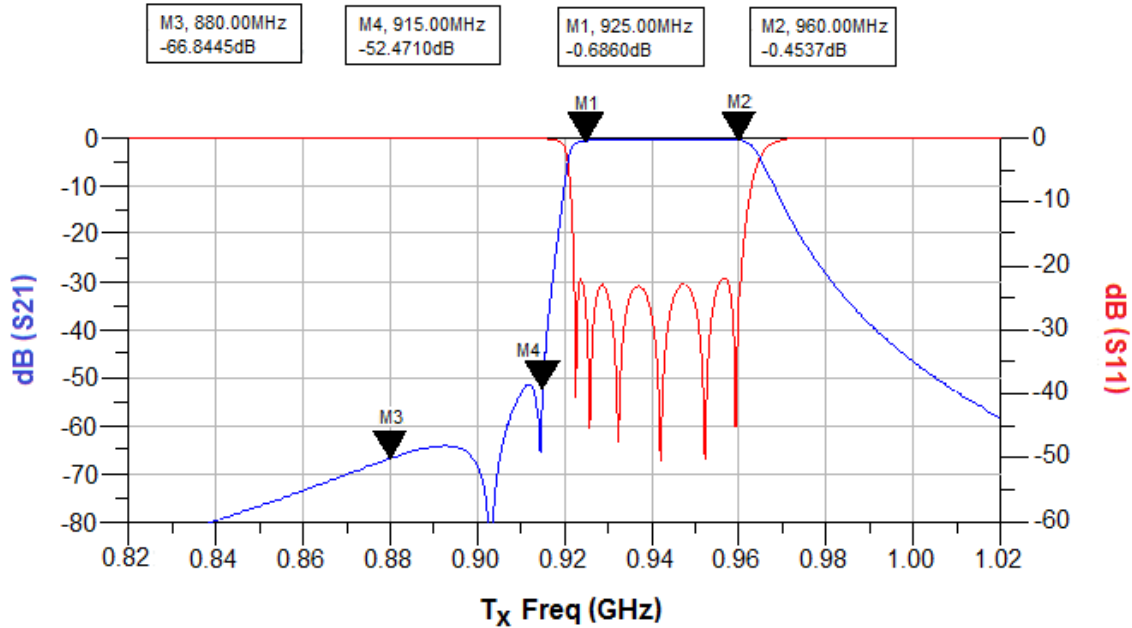
Note: All specifications are over the full operating temperature Range

II. Environmental & Physical Requirements:

1. Environmental
Temperature
Operating (OTR): -40°C to +85°C
Storage (STR): -45°C to +90°C
Humidity: Per IEC specification 68-2-30
Shock: 11msec half sine pulse 30G, 3 impacts per axis
Transportation Vibration: Per NEBS GR-63 core section 4.4.4
Life Cycle: The target life of the device is 20+ years
2. Package
Dimensions (maximum, excluding connectors & assembly and tuning screws):
150mm (L) x 144mm (W) x 60mm (H)
I/O Connectors: N-Female (all ports)
3. RoHS Compliance: Full RoHS Compliance

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III. Design Simulation Plots



IV. Data Sheet Revision Table:

Date	Rev.	Author	Details of Revision
03/13/12	1	BRM	Corrected a typographical error in the proposed package length. Was 120mm & should have been 150mm.
03/08/12	0	BRM	Original Draft.