

Specification for a Bandpass Filter

MtronPTI P/N: UF10080

I. General & Electrical Requirements

Passband, PB: 2200-2500MHz

PB Insertion Loss: 0.5dB max.

PB Return Loss: 14dB min.

Rejection

4400-5000MHz: 60dB min.

6600-7500MHz: 60dB min.

8800-10000MHz: 50dB min.

Power Handling: up to 150W CW

II. Environmental & Physical Requirements:

Temperature Range:

Operational: -40°C to +85°C

Non-Operational: -55°C to +105°C

Operational Altitude: -1,500 below MSL to 55,000 above MSL

Humidity: MIL-STD-810F, 95% Relative Humidity, no condensation

Fungus: MIL-STD-810F, method 508.5

Explosive Atmosphere: MIL-STD-810F, method 511.4, procedure I

Vibration:

5 to 100Hz: PSD increasing at 3dB/octave

100 to 1000Hz: PSD = $0.1g^2/Hz$

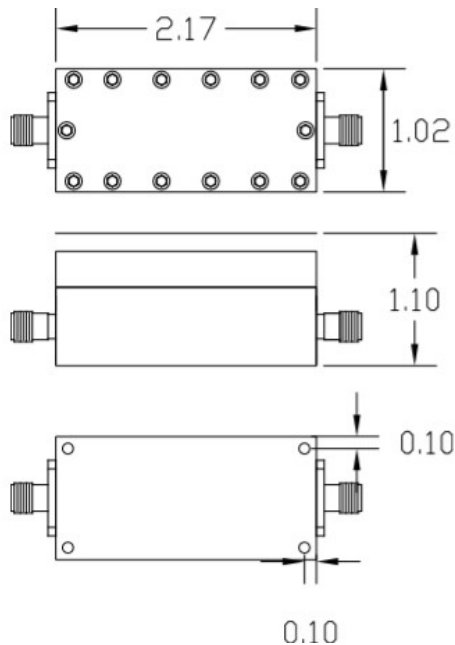
1000 to 2000Hz: PSD decreasing at 6dB/octave

Functional Shock: MIL-STD-810F, 40g, 11ms, half-sine or terminal peak sawtooth

Crash Safety: MIL-STD-810F, 40g, 11ms, terminal peak sawtooth

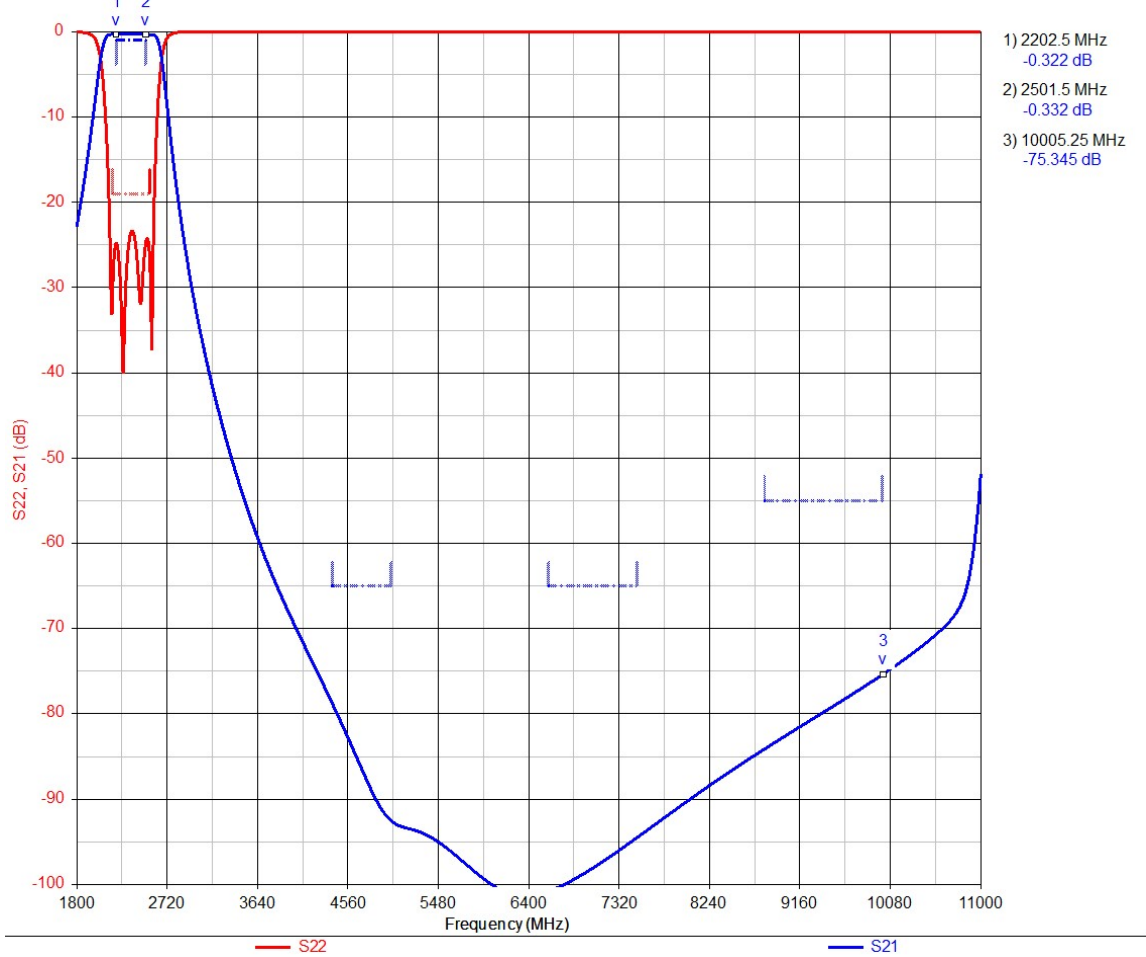
Finished product plating: Nickel

III. Preliminary Outline Drawing



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IV. Simulation Plot



V. Datasheet Revision

Date	Rev.	Author	Details of Revision
03-04-20	A	BRR	Preliminary Release.