



## Specification for a Bandpass Filter MtronPTI P/N: UF10081

### I. General & Electrical Requirements

Passband, PB: 15150-15350MHz

PB Insertion Loss: 4.0dB max.

PB Return Loss: 15dB min.

Rejection (14400-14830MHz): 80dB min.

Power Handling: 1W CW max.

### 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<sup>2</sup>/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 saw tooth

Material: Aluminum

Finish:

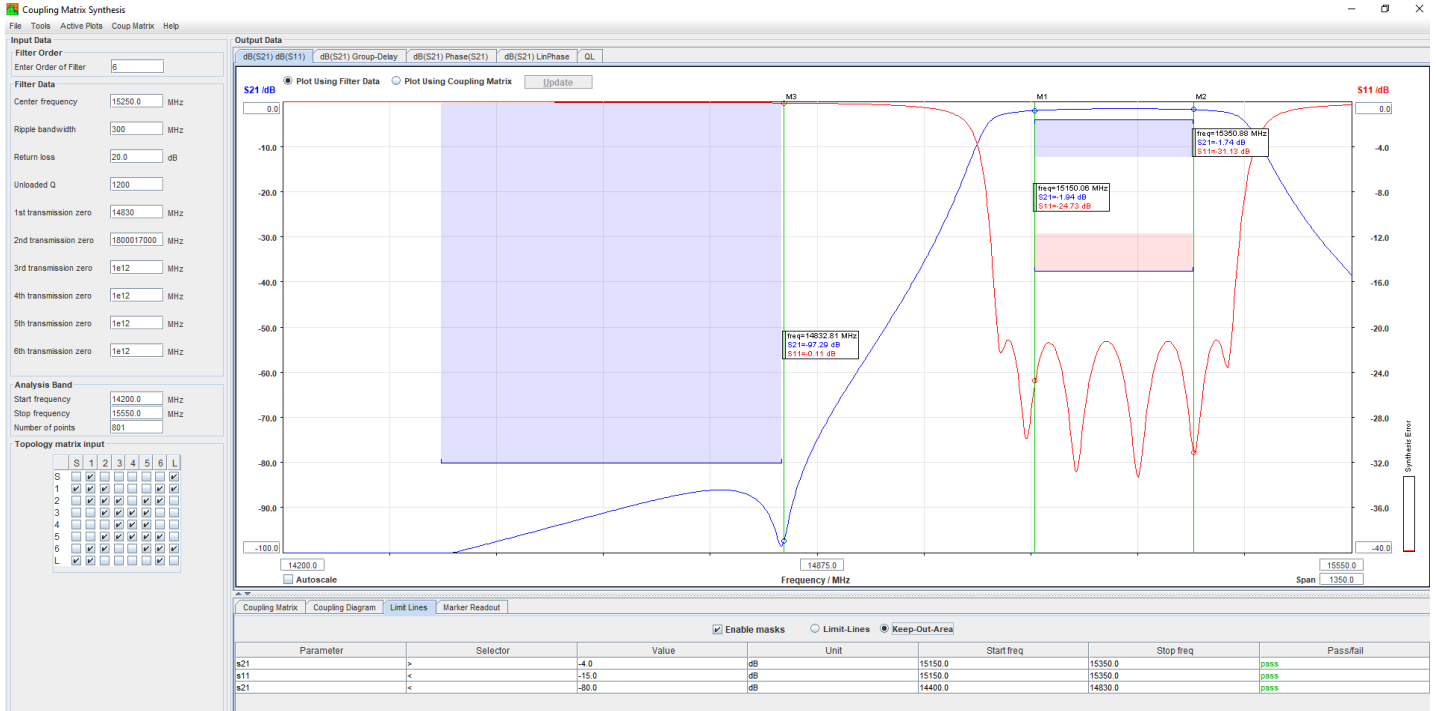
Cover: Silver everywhere.

Housing: silver everywhere except for bottom. The bottom will be aluminum with an Alodine finish.



## Specification for a Bandpass Filter MtronPTI P/N: UF10081

### Simulation Plot



### IV. Datasheet Revision

Date	Rev.	Author	Details of Revision
08-21-20	C	DPD	Material, finish details added. Outline updated.
06-10-20	B	DPD	Outline update and weight added
03-04-20	A	BRR	Preliminary Release.