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Specification for an LC Triplexer Filter MtronPTI P/N LF9287

I. General & Electrical Requirements:

1. Filter 1

Passband: 136MHz to 174MHz
Insertion Loss (IL, within the passband): < 0.8dB
Return Loss (within the Passband): > 17dB
Input Signal Power: ≤ 60-watts CW
Rejection

2. Filter 2

Passband: 380MHz to 520MHz
Insertion Loss (IL, within the passband): < 0.8dB
Return Loss (within the Passband): > 17dB
Input Signal Power: ≤ 60-watts CW
Rejection

3. Filter 3

Passband: 762MHz to 870MHz
Insertion Loss (IL, within the passband): < 0.8dB
Return Loss (within the Passband): > 17dB
Input Signal Power: ≤ 35-watts CW
Rejection

4. Common

Port to Port Isolation: > 25dB
Impedance: 50Ω nominal Impedance: 50Ω nominal

II. Environmental & Physical Requirements:

1. Environmental

Temperature

Operating: -30°C to +60°C

Storage: -57°C to +80°C

Vibration:

Basic Transportation: Per MIL-STD-810F, Method 514.5 Procedure I Category 4

Minimum Integrity: Per MIL-STD-810F, Method 514.5 Procedure II Category 24

Vibration Stability: Per U.S.F.S Paragraph 2.15

Shock:

Basic Shock (functional): Per MIL-STD-810F, Method 516.5 Procedure I

Transit Drop: Per MIL-STD-810F, Method 516.5 Procedure IV

2. Package (reference drawing, Figure 1)

Size: 4.570" (L) x 3.757" (W) x 1.220" (H), All Dimensions are Maximum & Exclude Connectors

Connectors: TNC-Female, All Ports

Material: Bright Nickel Plated Brass, per ASTM-B-689

Finish: Black, Painted, Semi-Gloss Polane w/Exterior Catalyst

Seal: Hermetic Per MIL-F-Paragraph 4.7.5.1 Gross Leak

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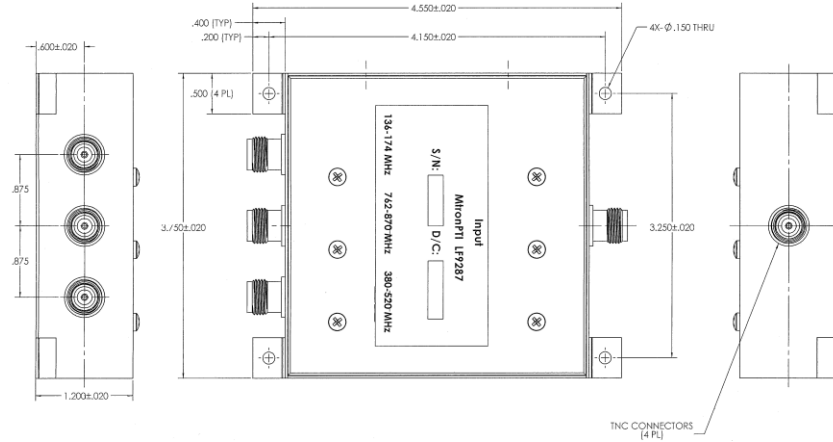
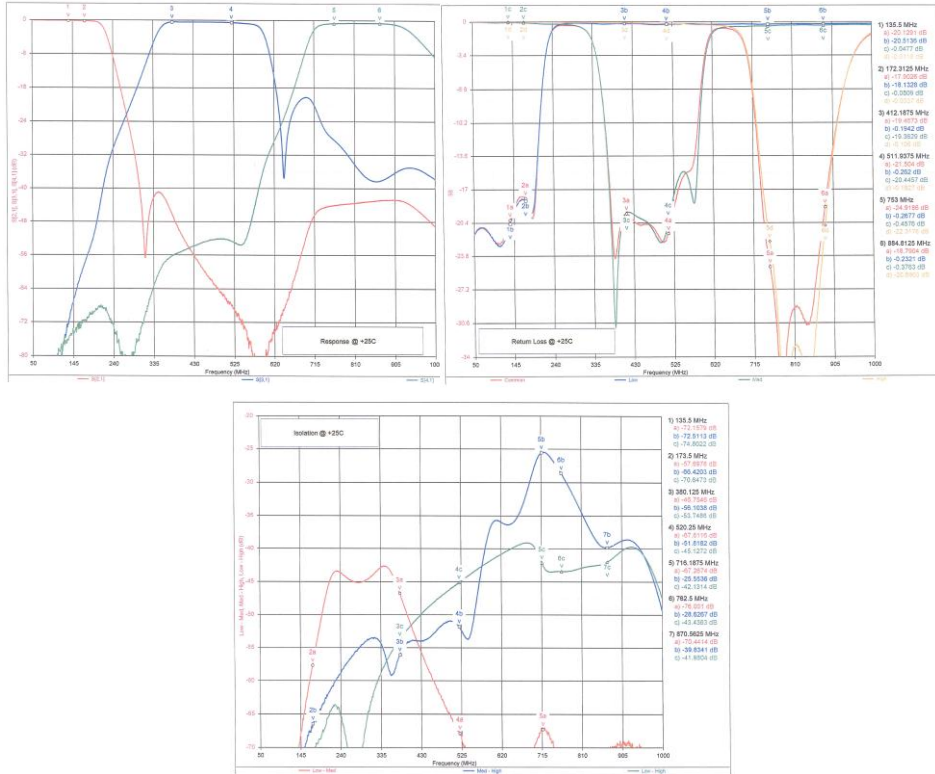


Figure 1: LF9287 Outline Drawing

III. Performance Plots



IV. DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
08/19/11	0	BRM	Original release.