Model 9075
200-Watt Lowpass LC Filter

Electrical Specifications

Corner Frequency
@ 0.5dB: 22MHz
@ 1.0dB: 25MHz

Passband Insertion Loss
≤ 0.5 dB from 1.5MHz to 22MHz
≤ 1.0 dB from 22MHz to 25MHz

Rejection: ≥ 40dB @ 30MHz

Ultimate Attenuation: ≥ 60dB from 35MHz to 90MHz
(Note: The Ultimate Attenuation shall be ≥ 60dB with VSWR up to 10: 1 on the filter output)

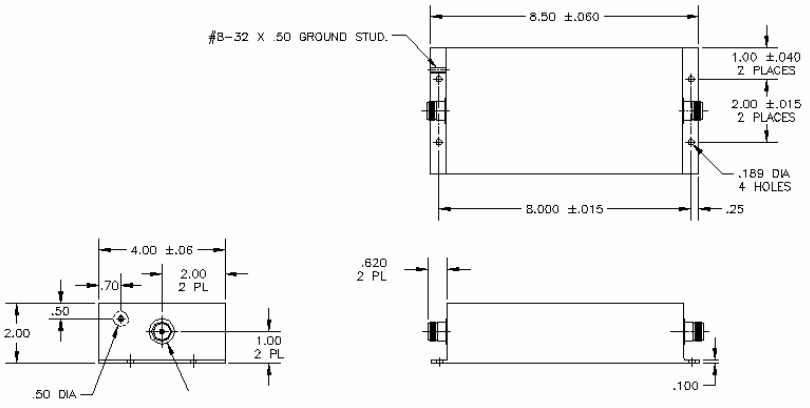
Return Loss
≥ 16dB from 1.5MHz to 5MHz
≥ 20dB from 5MHz to 25MHz

Power Handling: ≥ 200-W_{RMS}, including the transition band 25MHz – 30MHz

Z_{IN}/Z_{OUT}: 50Ω nominal

Package
Dimensions: Per Drawing
I/O Connectors: Coaxial 'N' Female Center Pin
Weight: ≤ 2.5Lbs

Environmental
Temperature Range
Operating: -40°C to +60°C
Storage: -45°C to +85°C
Altitude: Per MIL-STD-810, Method 500.3, Procedure I, II, and III. Test Altitude for Procedure III is 4570-meters @ 57.2kPa
Humidity: Per MIL-STD-810, Method 507.3, Procedure III
Salt Fog: Per MIL-STD-810, Method 509.3, Procedure I
Leakage (Immersion): Per MIL-STD-810, Method 512.3, Procedure I, 2-hours @ 1-meter
Vibration: Per MIL-STD-810, Method 514.4, Categories 1, 3 and 8 (Table 514.4-AIII)
Shock: Per MIL-STD-810, Method 516.4, Procedure I, V, and VI
Thermal Shock: Per MIL-STD-810, Method 503.3, Low Temperature -51°C and High Temperature +48°C
Solar Radiation: Per MIL-STD-810, Method 505.3, Procedure I, Hot-Dry Temperature Conditions (Table 505.3-1)
Rain: Per MIL-STD-810, Method 506.3, Procedure I
Ice and Freezing Rain: Per MIL-STD-810, Method 521.1



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MtronPTI, Inc. - 2525 Shader Road – Orlando – Florida – 32804-2780
Telephone: 407-298-2000 Fax: 407-293-2979 E-mail: sales@mtronpti.com