

Bandpass Cavity Resonator

Electrical Specifications

Frequency Band	440-512 MHz
Attenuation	See response curve
Input Power (Max.)	500 W
Insertion Loss Range	0.4 - 1.0 dB
VSWR (Max. / Typ.)	1.5:1 / 1.25:1
Electrical Length	1/4 λ
Impedance (Nom.)	50 Ω
RF Connectors	N Female

Mechanical Specifications

Finish	Gray Paint
Number of Cavities	1
Cavity Body Dimensions (WxD)	10" x 10" (254 x 254 mm)
Cavity Height w/ Tuning Rod	16-20" (406-508 mm)
Rack Mount	19" EIA (with optional bars or panel)
Overall Size (HxWxD)	16 - 20" x 15" x 10" (406-508 x 381 x 254 mm)
Net Weight	18 lbs (8.2 kg)
Ship Weight	24 lbs (10.9 kg)

Environmental Specifications

Operating Temp. Range	-22 to 140 °F (-30 to +60 °C)
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EMR Band Pass Cavities are 1/4 wavelength, high Q cavity filters with excellent selectivity. Bandpass cavities reject frequencies outside of a narrow pass band. These cavities may be factory tuned to specific frequency and are field tunable. Multiple cavities may be connected for greater selectivity with minimal insertion loss and wider pass bandwidths. Multi-cavity configurations come standard with 19 inch EIA rack mounting bars or panel with chassis tray.

Product Notes

- Power ratings listed are based on 1 dB insertion loss setting per cavity.
- Tuning rod maximum height is dependent on frequency.

