

TWPC-1510-1, 2
BANDPASS CAVITIES



TWPC-1510-1



TWPC-1510-2

Telewave TWPC-1510 cavities have 1/4" aluminum top plates which are fully welded to the aluminum outer conductor. This improvement, along with silver-plated copper tuners, beryllium copper fingers stock contactors and threaded Invar rod, assures temperature stability and High-Q operation.

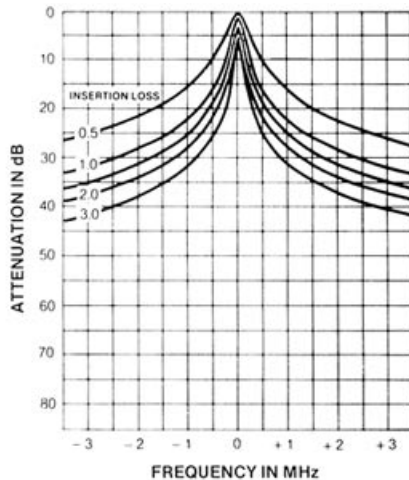
All cavities are tuned prior to shipping when frequencies are specified, and no further adjustments should be necessary. If frequency changes are required, the positive locking mechanism allows for easy field tuning by rotating the threaded Invar tuning rod. Selectivity and insertion loss may also be adjusted by rotating the calibrated connector loops. No special equipment is required when making these adjustments.

The Telewave Model TWPC-1510-1 is a 10" diameter, High-Q cavity filter for use in highly congested RF environments. The Model TWPC-1510-2 dual cavity provides additional protection as required for more severe RF environments. (See reverse side for typical selectivity characteristics). All dual cavity combinations are supplied complete with interconnecting cables and mounting rails.

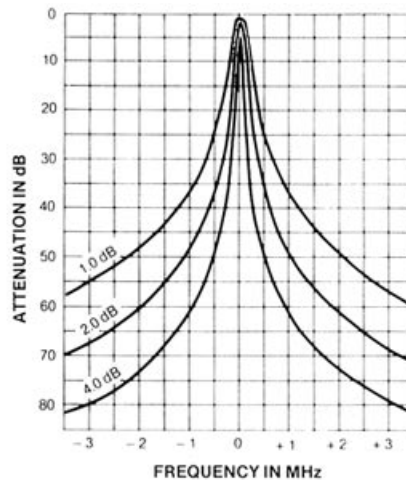
This bandpass cavity is ideal for use at any frequency congested site where maximum protection is needed from transmitter spurious radiation and receiver desensitization.

TELEWAVE, INC. 660 Giguere Court San Jose, CA 95133
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<http://www.telewave.com> Email: sales@telewave.com

TWPC-1510-1, 2



TWPC-1510-1 SINGLE CAVITY



TWPC-1510-2 DUAL CAVITY

ELECTRICAL DATA

Model
 Tuning Range
 Insertion Loss (Adjustable)
 Attenuation:
 Nominal Impedance:
 VSWR at Resonance (max)
 Input Power (max)
 0.5 dB insertion loss
 1.0 dB insertion loss
 2.0 dB insertion loss
 Temperature Range
 Cavity Electrical Length:

TWPC-1510-1

148-174 MHz
 0.5 to 2.0 dB
 See Fig. 1
 50 Ohms
 1.5:1
 350 Watts
 250 Watts
 150 Watts
 -30°C to +70°C
 1/4 wavelength

TWPC-1510-2

148-174 MHz
 1.0 to 4.0 dB
 See Fig. 2
 50 Ohms
 1.5:1
 350 Watts
 250 Watts
 150 Watts
 -30°C to +70°C
 1/4 wavelength

MECHANICAL DATA

Materials:
 Outer Conductor
 Inner Conductor
 Tuning Rod
 Contactors, fingerstock
 End Plates
 Coupling Loops
 Dimensions in (cm)
 (individual cavity)
 Max. outside dim. in (cm)
 (with tuning rods extended)
 Connector Terminations:
 Finish
 Net Weight lb (kg)
 Shipping Weight lb (kg)

6061-T6 Aluminum
 Silver plated copper
 Invar
 Beryllium copper
 6061-T6 Aluminum
 Silver plated copper
 10 x 23.5 (25 x 60)
 10 x 28 (25 x 71)
 N or UHF female
 Acrylic Enamel
 10 (4.6)
 13 (6)

6061-T6 Aluminum
 Silver plated copper
 Invar
 Beryllium copper
 6061-T6 Aluminum
 Silver plated copper
 20 x 23.5 (50 x 60)
 20 x 28 (50 x 71)
 N or UHF female
 Acrylic Enamel
 21.5 (9.8)
 24 (10.9)

WHEN ORDERING BE SURE TO SPECIFY EXACT FREQUENCY AND MODEL NUMBER.
 Contact the factory if additional information or assistance is required.

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