

**TWPC-1410-1, -2
BANDPASS CAVITIES****TWPC-1410-1****TWPC-1410-2**

Telewave TWPC-1410 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.

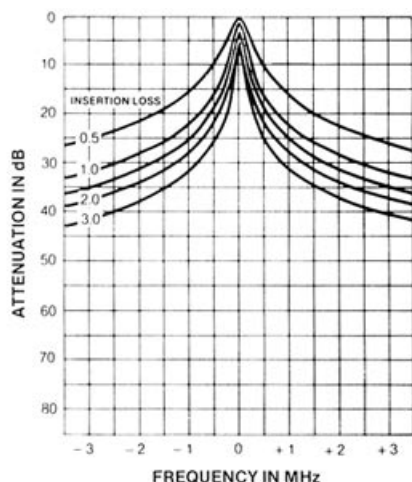
All cavities are tuned prior to shipping when frequencies are specified, and no further adjustments should be necessary. If frequency changes are required, the positive locking mechanism allows for easy field tuning by rotating the threaded Invar tuning rod. Selectivity and insertion loss may also be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

The Telewave Model TWPC-1410-1 is a 10" diameter, High-Q cavity filter for use in highly congested RF environments. The Model TWPC-1410-2 dual cavity provides additional protection as required for more severe RF environments. (See reverse side for typical selectivity characteristics). All dual and triple-cavity combinations are supplied complete with interconnecting cables and mounting rails.

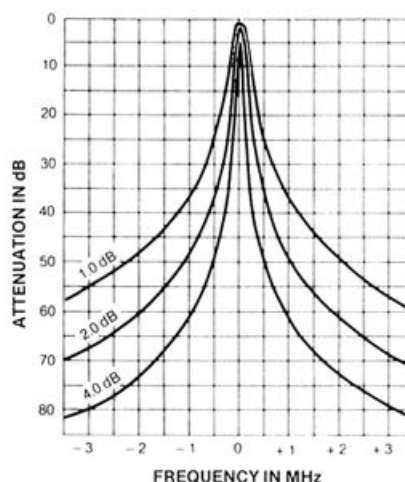
This bandpass cavity is ideal for use at any frequency congested site where maximum protection is needed from transmitter spurious radiation and receiver desensitization.

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TWPC-1410-1, -2



TWPC-1410-1 SINGLE CAVITY



TWPC-1410-2 DUAL CAVITY

ELECTRICAL DATA

	<u>TWPC-1410-1</u>	<u>TWPC-1410-2</u>
Model	TWPC-1410-1	TWPC-1410-2
Tuning Range	118-148 MHz	118-148 MHz
Insertion Loss (Adjustable)	0.5 to 2.0 dB	1.0 to 4.0 dB
Attenuation:	See Fig. 1	See Fig. 2
Nominal Impedance:	50 Ohms	50 Ohms
VSWR at Resonance (max)	1.5:1	1.5:1
Input Power (max)		
0.5 dB insertion loss	350 Watts	350 Watts
1.0 dB insertion loss	250 Watts	250 Watts
2.0 dB insertion loss	150 Watts	150 Watts
Temperature Range	-30°C to +70°C	-30°C to +70°C
Cavity Electrical Length:	1/4 wavelength	1/4 wavelength

MECHANICAL DATA

Materials:		
Outer Conductor	6061-T6 Aluminum	6061-T6 Aluminum
Inner Conductor	Silver plated copper	Silver plated copper
Tuning Rod	Invar	Invar
Contactors, fingerstock	Beryllium copper	Beryllium copper
End Plates	6061-T6 Aluminum	6061-T6 Aluminum
Coupling Loops	Silver plated copper	Silver plated copper
Dimensions in (cm)		
(individual cavity)	10 x 30 (26 x 77)	20 x 30 (52 x 77)
Max. outside dim. in (cm)		
(with tuning rods extended)	10 x 32 (26 x 81)	20 x 32 (52 x 81)
Connector Terminations:	N or UHF female	N or UHF female
Finish	Acrylic Enamel	Acrylic Enamel
Net Weight lb (kg)	11 (5)	22 (10)
Shipping Weight lb (kg)	14 (6.4)	28 (12.8)

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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