



Micro Communications, Inc.

Microwave A MICROWAVE TECHNIQUES COMPANY

VHF-TV STEREO DIPLEXER

- Ideal for Solid State Transmitters
- Compatible with CCIR Dual Sound
- Low Loss
- Low VSWR
- High Isolation

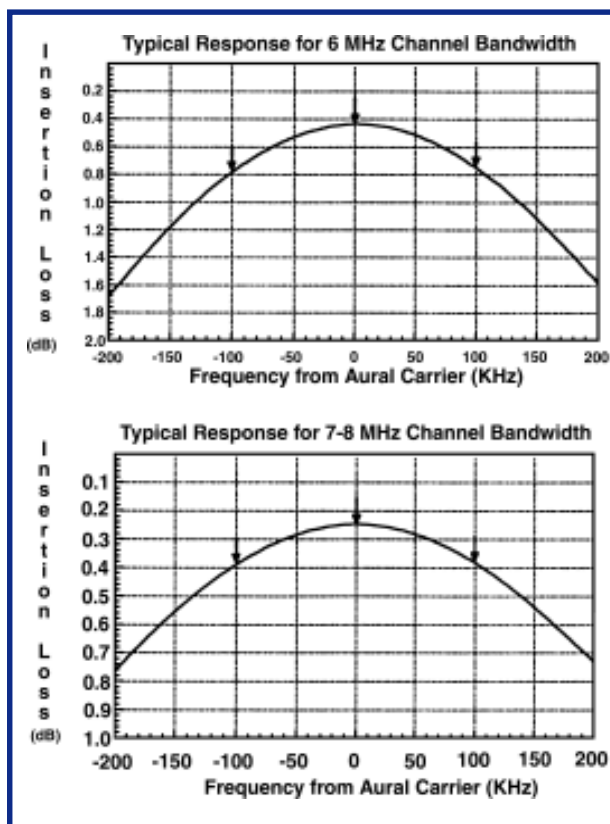
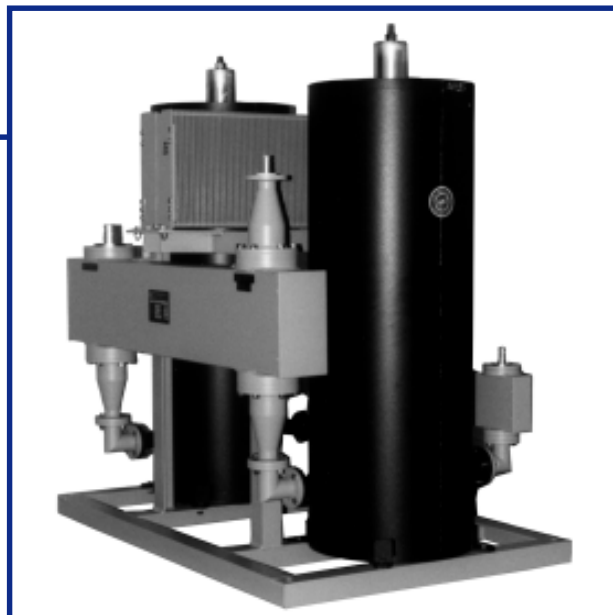
MCI's VHF Compact Diplexers are constant impedance devices used to combine visual and aural transmitters into a single output. These units are constructed of broadband coax hybrids and a cavity section assembled in a unitized frame for floor or ceiling mounting.

The aural cavities utilize a high Q design. The cavity probe is constructed of low coefficient-of-expansion Invar and is silver-plated.

The diplexer is easily packaged in any custom installation. It includes a mounted reject load with RF sampling probe. Color notch cavity is not included, but can be supplied. Wattmeters and directional couplers are additional.

Models are available for USA VHF channels 2-6 and 7-13 and European VHF channels 2-4 and 5-12.

Models are available for Hi-V (Band III) that can be tuned across the entire band. Consult factory for specifications.





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SPECIFICATIONS	
Frequency:	Specify Channel
Insertion Loss:	
Visual:	0.10 dB
+3.58 MHz:	0.50 dB
Aural:	0.35 dB Maximum
± 200 KHz:	<1.6 dB
Isolation:	35 dB (Visual to Aural) 40 dB (Aural to Visual)
VSWR:	
Visual:	1.05 F _v to F _v + 3.5 MHz 1.08 F _v +35 to F _v 4.18MHz
Aural:	1.08 Aural ± 200 KHz
Antenna Input:	1.10 Over Band
Amplitude Response:	2 dB at +4.18 MHz lo V 3 dB at +4.18 MHz Hi V

CHANNEL USA (Frequency)	2-6 (54-88 MHz)	7-13 (174-216 MHz)
CHANNEL EUROPE (Frequency)	2-4 (47-68 MHz)	5-12 (174-230 MHz)
MODEL	41835	41815
POWER (peak Vis)	100 kW	80 kW
SIZE in (cm)	31x54x65 (79x137x165)	31x54x40 (79x137x102)
WEIGHT lbs (kg)	430 (195)	380 (172)
CONNECTORS EIA	6 1/8-V, 3 1/8-A	6 1/8-V, 3 1/8-A
MODEL	41834	41814
POWER (peak Vis)	60 kW	60 kW
SIZE in (cm)	31x48x65 (79x122x165)	31x48x40 (79x122x102)
WEIGHT lbs (kg)	390 (177)	340 (154)
CONNECTORS EIA	4 1/16-V, 1 5/8-A	4 1/16-V, 1 5/8-A
MODEL	41833	41813
POWER (peak Vis)	40 kW	40 kW
SIZE in (cm)	31x42x65 (79x107x165)	31x42x40 (79x107x102)
WEIGHT lbs (kg)	350 (159)	300 (136)
CONNECTORS EIA	3 1/8-V, 1 5/8-A	3 1/8-V, 1 5/8-A
MODEL	41832	41812
POWER (peak Vis)	20 kW	10 kW
SIZE in (cm)	31x42x62 (79x91.5x165)	31x42x40 (79x91.5x102)
WEIGHT lbs (kg)	330 (150)	280 (127)
CONNECTORS EIA	1 5/8-V, 1 5/8-A	1 5/8-V, 1 5/8-A
MODEL	41831	41811
POWER (peak Vis)	10 kW	5 kW
SIZE in (cm)	31x36x65 (79x91.5x165)	31x36x40 (79x91.5x102)
WEIGHT lbs (kg)	310 (140)	260 (118)
CONNECTORS EIA	7/8-V, 7/8-A	7/8-V, 7/8-A

All specifications are subject to change without notice



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