



# UHF COMPACT DIPLEXER

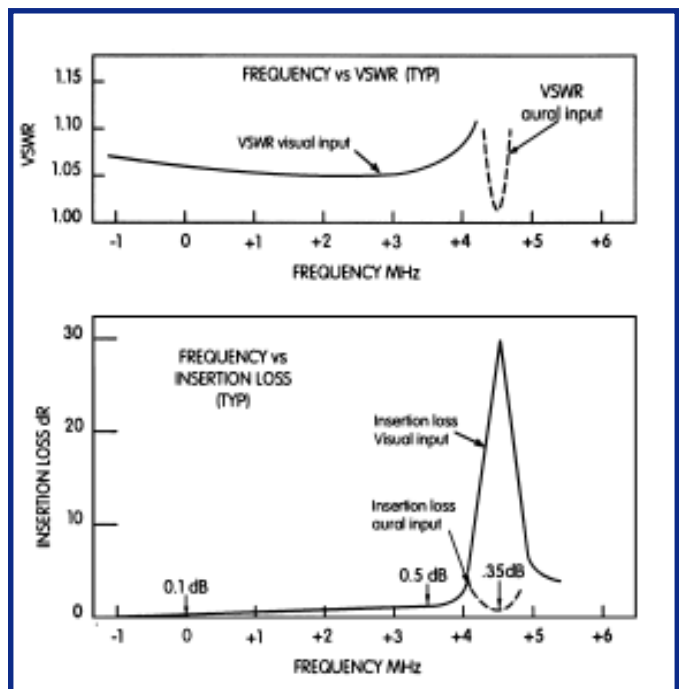
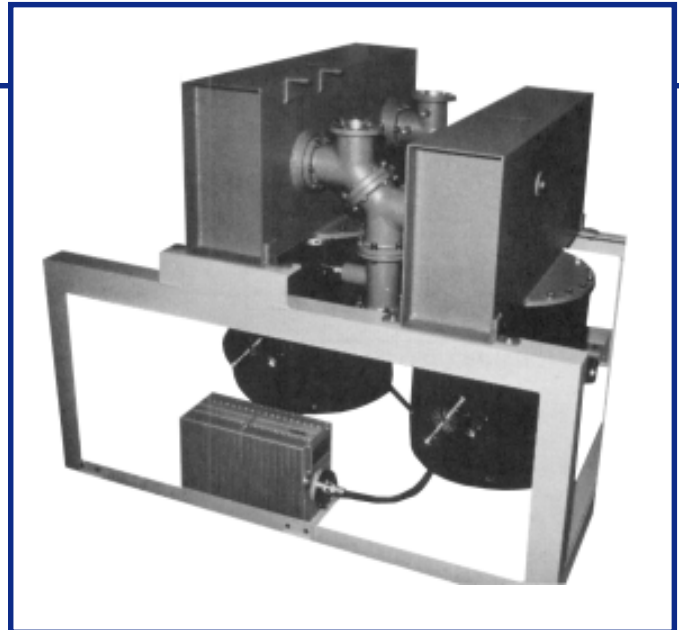
- Ideal for Solid State Transmitter
- Low Loss
- Low VSWR
- Compatible with CCIR Dual Sound
- High Isolation

MCI UHF Compact Diplexers are constant impedance devices used to combine visual and aural signals into a single output. These diplexers are constructed of broadband coax hybrids and high Q cavity sections in a unitized frame for floor or ceiling mounting.

The aural cavities are constructed of Invar™, an ultra-thermally stable metal, and are silver-plated to guarantee low loss for combining. These high quality materials result in a very efficient, reliable and stable diplexer, especially for CCIR dual sound requirements.

These diplexers satisfy FCC and CCIR bandwidth requirements and have minimum pass band variation and group delay.

Models are available for UHF channels 14-69. Power Levels from 2 to 60kW peak visual are available.





<b>SPECIFICATIONS</b>	
VSWR:	1.08 (Visual Frequency) 1.10 (Aural Frequency)
Insertion Loss:	0.1 dB (Visual Frequency) 0.4 dB (Aural Frequency)
Isolation:	35 dB (Visual – Aural) 30 dB (Aural – Visual)

	<b>UHF</b>		
FREQUENCY (MHz)	470-488	488-728	728-860
CHANNEL RANGE	14-16	17-56	57-69
MODEL	41436	41446	41456
POWER	60kW	60kW	60kW
SIZE	in 68x54x54 (cm) (172.7x137x137)	in 66x52x52 (cm) (167x132x132)	in 64x50x50 (cm) (162x127x127)
WEIGHT	lbs 280 (kg) (127)	lbs 270 (kg) (122)	lbs 250 (kg) (113)
CONNECTORS EIA	6 1/8	6 1/8	6 1/8
MODEL	41435	41445	41455
POWER	40kW	40kW	40kW
SIZE	in 54x46x46 (cm) (137x117x117)	in 52x44x44 (cm) (132x112x112)	in 50x42x42 (cm) (127x107x107)
WEIGHT	lbs 210 (kg) (95)	lbs 200 (kg) (90)	lbs 180 (kg) (81)
CONNECTORS EIA	4 1/16	4 1/16	4 1/16
MODEL	41434	41444	41454
POWER	20kW	20kW	20kW
SIZE	in 54x46x46 (cm) (137x117x117)	in 52x44x44 (cm) (132x112x112)	in 50x42x42 (cm) (127x107x107)
WEIGHT	lbs 190 (kg) (86)	lbs 180 (kg) (81)	lbs 160 (kg) (73)
CONNECTORS EIA	3 1/8	3 1/8	3 1/8
MODEL	41433	41443	41453
POWER	10kW	10kW	10kW
SIZE	in 54x46x46 (cm) (137x117x117)	in 52x44x44 (cm) (132x112x112)	in 50x42x42 (cm) (127x107x107)
WEIGHT	lbs 190 (kg) (86)	lbs 180 (kg) (81)	lbs 160 (kg) (73)
CONNECTORS EIA	3 1/8	3 1/8	3 1/8

All specifications subject to change without notice.

**NOTES:**

1. Aural power is 10% of visual power. Please contact the factory for applications requiring 20% aural.
2. Forced air cooling for aural cavities can be supplied for 20, 40, and 60kW models.
3. Visual color notch trap maybe added.
4. 10kW design also used for 5kW and 2kW models

