



Micro Communications, Inc.

SERIES 41500

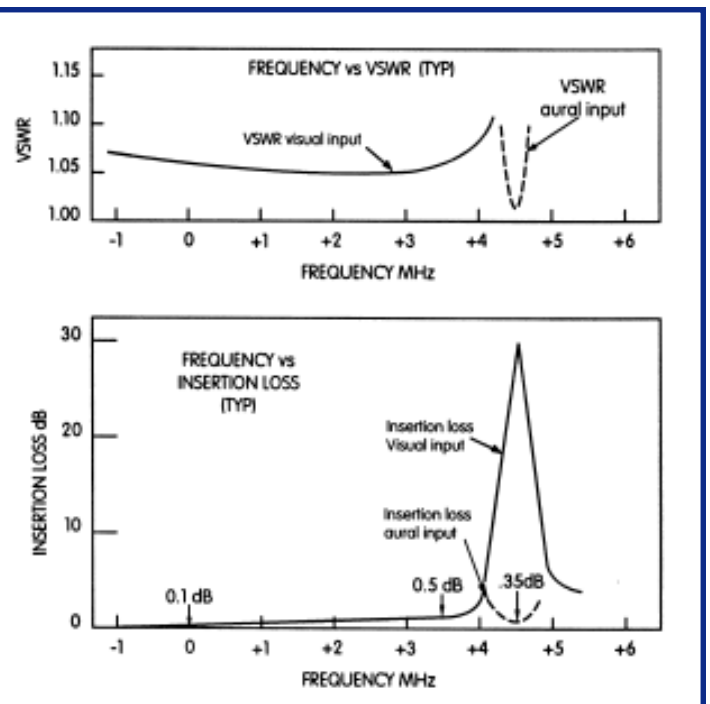
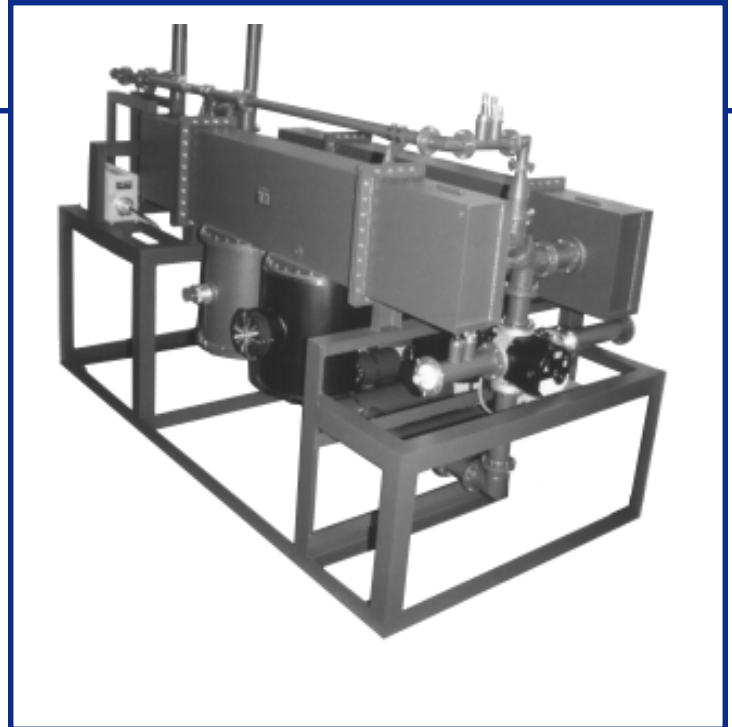
# MEDIUM POWER UHF UNITIZED DIPLEXER

- Low Loss
- Low VSWR
- Compatible with CCIR Dual Sound
- High Isolation

MCI UHF Medium Power 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.

The cavity section is made up of two high Q aural cavity pair. One pair provides a minimum of 30dB of rejection for the color energy below the visual, while the other pair of cavities are for the aural carrier. The aural cavities are constructed of low coefficient-of-expansion Invar and are silver-plated. The design allows only negligible drift, which results in a very efficient, reliable and stable operation, especially for CCIR dual sound requirements.

These diplexers satisfy FCC or CCIR bandwidth requirements and have minimum passband variation and group delay.





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<b>SPECIFICATIONS</b>	
VSWR:	1.08 (Visual Frequency) 1.10 (Aural Frequency)
Frequency:	Specify Channel (14-69)
Insertion Loss:	0.1 dB (Visual Frequency) 0.4 dB (Aural Frequency)
Isolation:	35 dB (Visual – Aural) 30 dB (Aural – Visual)
Cooling:	Air Convection (Fans Supplied)

		<b>UHF</b>		
FREQUENCY (MHz)		470-626	560-716	644-860
CHANNEL RANGE		14-39	29-54	43-69
MODEL		41536	41546	41556
POWER		60kW	60kW	60kW
SIZE	in (mm)	105x60x52 (2670x1525x1320)	98x56x50 (2490x1420x1270)	80x60x52 (2030x1525x1320)
WEIGHT	lbs (kg)	500 (226)	475 (215)	450 (204)
CONNECTORS EIA		6 1/8	6 1/8	6 1/8
MODEL		41535	41545	41555
POWER		35kW	35kW	35kW
SIZE	in (mm)	105x60x52 (2670x1525x1320)	98x56x50 (2490x1420x1270)	80x60x52 (2030x1525x1320)
WEIGHT	lbs (kg)	500 (226)	475 (215)	450 (204)
CONNECTORS EIA		4 1/16	4 1/16	4 1/16
MODEL		41534	41544	41554
POWER		20kW	20kW	20kW
SIZE	in (mm)	105x60x52 (2670x1525x1320)	98x56x50 (2490x1420x1270)	80x60x52 (2030x1525x1320)
WEIGHT	lbs (kg)	475 (215)	450 (204)	425 (193)
CONNECTORS EIA		3 1/8	3 1/8	3 1/8

All specifications are subject change without notice.

**NOTES:**

1. Aural power is 10% of visual power. For applications requiring 20% aural, contact the factory.
2. Air convection fans for aural cavities can be supplies for either 115 VAC or 230 VAC.



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