Micro Communications, Inc.
A MICROWAVE TECHNIQUES COMPANY

DUOBAND COUPLER

Duoband Coupler

- **Two Channels on One Line**
- **Use Existing Line**
- **Performance Stability**
- **Low Loss**
- **Low VSWR**
- **Standard EIA Sizes**

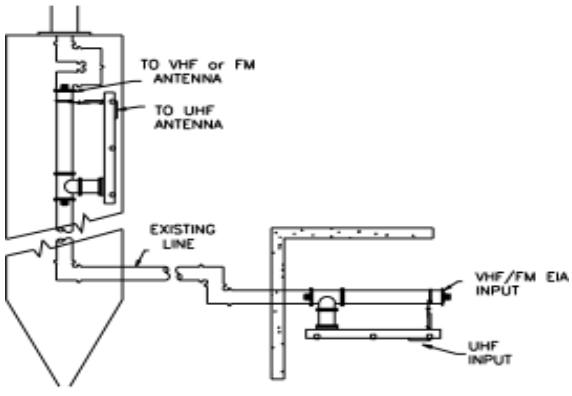
MCI's patented DuoBand Coupler is supplied with a coupler at the top of the line and one at the bottom. It is designed to carry two broadcast signals on a single common transmission line up the tower and then split the signals at the top to feed two different antennas.

The two signals are completely isolated and remain independent of each other. Reliable low Q devices are used in the couplers to ensure stable operation over a wide range of environmental conditions that may be present on the tower.

An existing coaxial transmission line carrying a VHF or FM signal can be converted to dual use through the addition of dual channel line couplers top and bottom. A UHF-DTV station or a LPTV station can be added to an existing tower by feeding a new UHF antenna from the output of the top coupler.

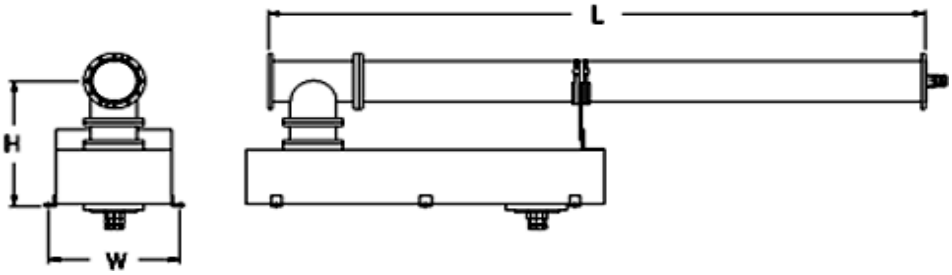
Power rating and flange reflections must be taken into consideration when considering the use of this device.

Connectors are standard EIA sizes. Other types are available on special order.



SERIES 41900
DOUBAND COUPLER

SPECIFICATIONS	
VSWR:	1.04:1 (each channel)
Insertion Loss:	<0.09 dB
Isolation:	>45 dB



UHF Channel	Lo-VHF	FM	Hi-VHF	"L" (in)	"W" (in)	"H" (in)	WIND AREA	WEIGHT (lbs)
14-17	2-6	-	-	144.0	20.5	38.0	936 in^2	250
14-17	-	201-300	-	130.0	20.5	36.0	936 in^2	200
14-17	-	-	7-13	120.0	20.5	30.0	936 in^2	190
18-42	2-6	-	-	144.0	17.5	38.0	780 in^2	250
18-42	-	201-300	-	130.0	17.5	36.0	780 in^2	200
18-42	-	-	7-13	120.0	17.5	30.0	780 in^2	190
43-69	2-6	-	-	144.0	14.0	38.0	600 in^2	250
43-69	-	201-300	-	130.0	14.0	36.0	600 in^2	200
43-69	-	-	7-13	120.0	14.0	30.0	600 in^2	190

Contact factory for detailed analysis.

All specifications are subject to change without notice

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