



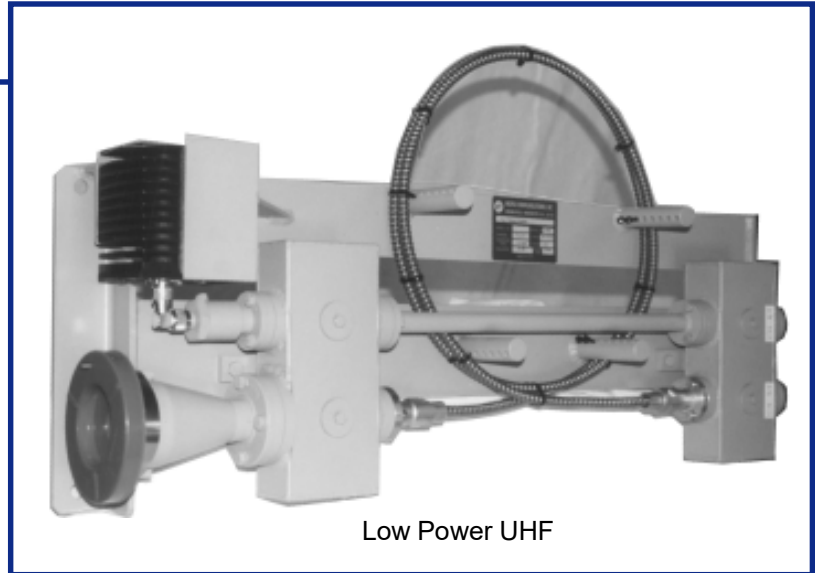
Micro Communications, Inc.

Microwave A MICROWAVE TECHNIQUES COMPANY

SERIES 41300

RESONANT LOOP CHANNEL COMBINER/SPLITTER

- **Combines any Two TV Channels**
- **Constant Impedance Design**
- **High Isolation**
- **Low Loss**
- **Feeds Two Antennas**

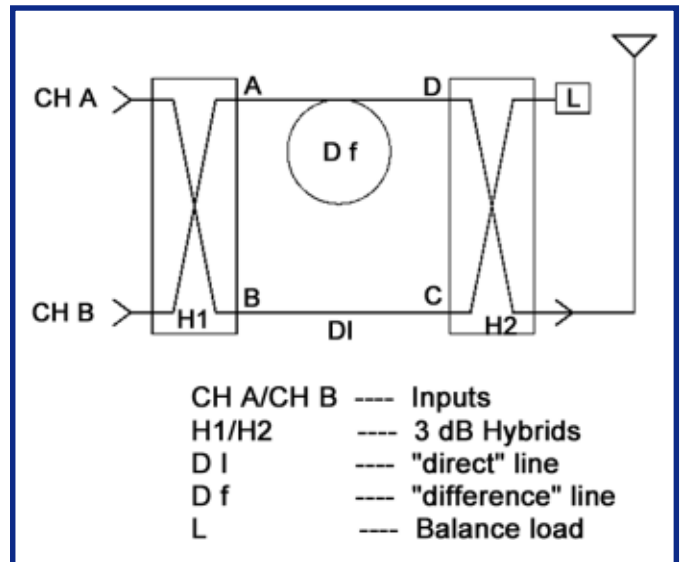


MCI's Resonant Loop Channel Combiner/Splitter is used when the channels used have a frequency separation greater than 24 MHz.

The combiner/splitter is a constant impedance design that utilizes the phase relationship of the resonant loop to accomplish the combining or separating of the two channels. The essential elements of the device are a matched pair of quadrature hybrids, interconnected by two transmission lines whose electrical lengths differ by a half wavelength.

There are no filters or cavities used, making this device suitable for installation at the tower top to feed separate antennas.

MCI's Resonant Loop Combiner/Splitter is available in combined power levels from 2kW to 240kW.





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**SERIES 41300
RESONANT LOOP COMBINER/SPLITTER**

SPECIFICATIONS	
VSWR:	1.10:1
Frequency:	Specify channels of use
Insertion Loss:	0.20-0.50 dB (visual to sound)
Impedance:	50 ohms
Connections:	EIA or unflanged

Performance varies with channels and powers being combined.
Contact factory for particular specifications

		Hi VHF	UHF
FREQUENCY (MHz)		174-230	470-790
MODEL		41315	41395
MAX POWER (combined out)		120kW (peak Vis)	60kW (peak Vis)
CONNECTORS		6 1/8	6 1/8
SIZE	in	60x48x86	52x36x66
	(cm)	(152x122x218)	(132x91x168)
WEIGHT	lbs	550	525
	(kg)	(250)	(238)
MODEL		41314	41394
MAX POWER (combined out)		80kW (peak Vis)	40kW (peak Vis)
CONNECTORS		4 1/16	4 1/16
SIZE	in	52x30x78	48x24x84
	(cm)	(132x76x198)	(122x61x213)
WEIGHT	lbs	450	425
	(kg)	(204)	(192)
MODEL		41313	41393
MAX POWER (combined out)		50kW (peak Vis)	30kW (peak Vis)
CONNECTORS		3 1/8	3 1/8
SIZE	in	52x30x76	47x20x76
	(cm)	(132x76x193)	(120x50x193)
WEIGHT	lbs	375	350
	(kg)	(170)	(158)
MODEL		41312	41392
MAX POWER (combined out)		14kW (peak Vis)	8kW (peak Vis)
CONNECTORS		1 5/8	1 5/8
SIZE	in	40x24x70	32x16x68
	(cm)	(102x64x178)	(81x41x173)
WEIGHT	lbs	200	175
	(kg)	(90)	(80)

All specifications are subject to change without notice.



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