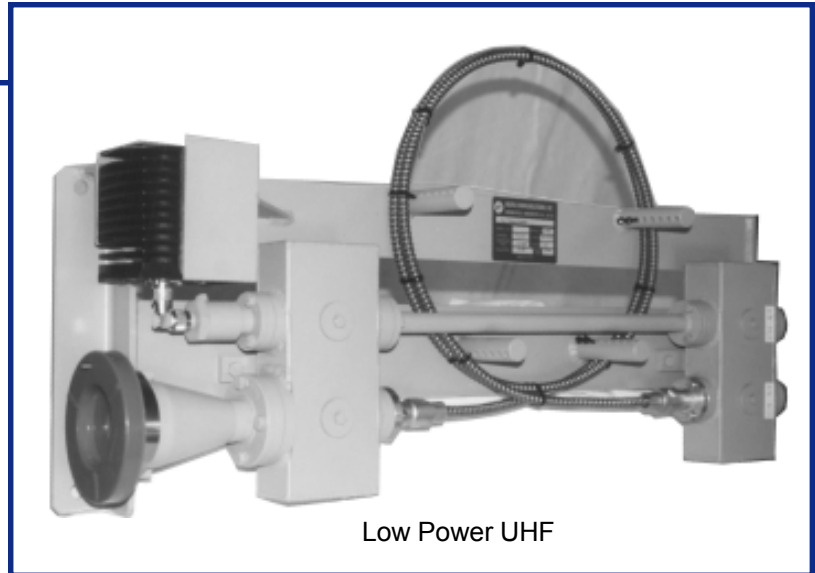




# RESONANT LOOP CHANNEL COMBINER/SPLITTER

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

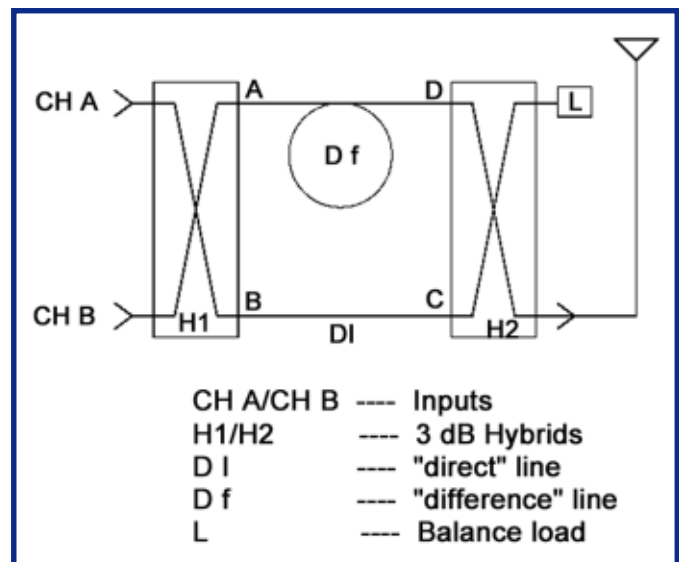


MCI's Resonant Loop Channel Combiner/Splitter is used when the channels used have a frequency separation greater than 24 MHz.

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 Channel Combiner/Splitter is available in combined power levels from 2kW to 240kW.





<b>SPECIFICATIONS</b>	
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

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

All specifications are subject to change without notice.

