



- Suitable for analog and digital TV or mobile media applications.
- Temperature compensated
- Low VSWR
- Dielectric is offering the CIF channel combiner with filters, tuned for mask filter requirements too.
- Floor mounting frame available; please contact the factory.

Model Number	CU182CC83	CU152CC83	CU112CC83
Total Average Power ₁	15kW-30kW-75kW	15kW-30kW-75kW	15kW-30kW-75kW
Frequency	470-494 MHz	494-680 MHz	650-860 MHz
Channel Spacing	≥0	≥0	≥0
Narrow Band Input			
Average Power Handling ₁	10kW-20kW-55kW	10kW-20kW-55kW	10kW-20kW-55kW
Response Curve	Critical (Full Mask)	Critical (Full Mask)	Critical (Full Mask)
Temperature Compensated	Yes	Yes	Yes
Insertion Loss 6MHz ATSC			
F0	<0.3 dB	<0.3 dB	<0.3 dB
F0 ± 2.69 MHz	<0.7 dB	<0.7 dB	<0.7 dB
F0 ± 3.00 MHz	<2.7 dB	<2.7 dB	<2.7 dB
F0± 3.25 MHz	>18 dB	>18 dB	>18 dB
F0± 9.00 MHz	>64 dB	>64 dB	>64 dB
Group Delay Variation ₂	<400 nS over passband	<400 nS over passband	<400 nS over passband
Connector	3 1/8" EIA/ 4 1/16" FLG/WR 1800	3 1/8" EIA/ 4 1/16" FLG/WR 1500	3 1/8" EIA/ 4 1/16" FLG/WR 1150
Wide Band Input			
Average Power Handling _{1,3}	5kW-10kW-10kW	5kW-10kW-10kW	5kW-10kW-10kW
Insertion Loss	≤ 0.1 dB	≤ 0.1 dB	≤ 0.1 dB
Group Delay Variation ₂	<400 nS over passband	<400 nS over passband	<400 nS over passband
Connector	3 1/8" EIA/WR 1800	3 1/8" EIA/WR 1500	3 1/8" EIA/WR 1150
Output Connector	3 1/8" EIA/ 4 1/16" FLG/WR 1800	3 1/8" EIA/ 4 1/16" FLG/WR 1500	3 1/8" EIA/ 4 1/16" FLG/WR 1150
Isolation Between Inputs			
NB to WB	≥ 35 dB	≥ 35 dB	≥ 35 dB
WB to NB	≥ 50 dB	≥ 50 dB	≥ 50 dB
VSWR	< 1.06	< 1.06	< 1.06
Material	Invar	Invar	Invar
Hybrids Type	WR	WR	WR
Number of Poles	8	8	8

Temperature Stability	<50 kHz shift over temperature range	<50 kHz shift over temperature range	<50 kHz shift over temperature range
Blowers & Shrouds	Yes, P > 20kW	Yes, P > 20kW	Yes, P > 20kW
Ambient Temperature	32°F(0°C) to 113°F(45°C)	32°F(0°C) to 113°F(45°C)	32°F(0°C) to 113°F(45°C)
Storage Temperature	32°F(0°C) to 122°F(50°C)	32°F(0°C) to 122°F(50°C)	32°F(0°C) to 122°F(50°C)
Ambient/Storage Humidity	0-98% non-condensing	0-98% non-condensing	0-98% non-condensing
Dimensions (LxWxH)	189"x56"x36" (4.8m x 1.4m x 0.9m)	227"x58"x33" (5.8m x 1.2m x 0.8m)	188"x42"x31" (4.8m x 1.0m x 0.8m)
Weight	1300 lbs (590 kg)	1175 lbs (533 kg)	1050 lbs (476 kg)
Max. Altitude ₄	10,000 ft (3050m)	10,000 ft (3050m)	10,000 ft (3050m)
Application	ATV/DTV	ATV/DTV	ATV/DTV

1. At ambient temperature 104°F(0°C), sea level, 0 PSIG
2. Group delay variation over the pass band
3. By reducing the average input at NB input, half of the power reduced can be added to the WB input
4. For more than 5000 feet (1524m), please contact the factory.

