



Typical Specifications for 6 MHz TV Standard			
Model Number	CU182CN63	CU152C63	CU112CN63
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	≥ 1	≥ 1	≥ 1

Narrow Band Input

Model Number	CU182CC83	CU152CC83	CU112CC83
Average Power Handling ₁	10kW-20kW-55kW	10kW-20kW-55kW	10kW-20kW-55kW
Response Curve	Non Critical	Non Critical	Non Critical
Temperature Compensated	Yes	Yes	Yes
Insertion Loss 6MHz ATSC			
F0	<0.3 dB	<0.3 dB	<0.3 dB
F0 ± 2.69 MHz	<0.3 dB	<0.3 dB	<0.3 dB
F0 ± 3.50 MHz	<0.05 dB	<0.05 dB	<0.05 dB
F0± 4.50 MHz	>10.3 dB	>10.3 dB	>10.3 dB
F0± 6.00 MHz	>30 dB	>30 dB	>30 dB
F0± 9.00 MHz	>64 dB	>64 dB	>64 dB
Group Delay Variation ₂	<150 nS over passband	<150 nS over passband	150 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
Average Power Handling _{1,3}	5kW-10kW-20kW	5kW-10kW-20kW	5kW-10kW-20kW
Insertion Loss	≤ 0.1 dB	≤ 0.1 dB	≤ 0.1 dB
Group Delay Variation	< 10 nS over passband	< 10 nS over passband	< 10 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
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	6	6	6
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)	202"x56"x31" (5.1m x 1.4m x 0.78m)	197"x48"x28" (5.0m x 1.2m x 0.7m)	163"x42"x26" (4.1m x 1.0m x 0.67m)
Weight	1000 lbs (454 kg)	875 lbs (397 kg)	750 lbs (340 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(40°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

