

# DAB/DMB Constant Impedance Combiner

1.2 kW rms, 6 Pole

BAND III

10 year GUARANTEE

SPECIFICATIONS	STANDARD	OPTIONAL
FREQUENCY	170 - 240 MHz	
BANDWIDTH	1.54 MHz	
ORDER	6 Poles, 2 cross-coupling	
APPLICATION	Adjacent Ch combining	
DAB	Critical mask	
IMPEDANCE	50 Ohm	
NB RETURN LOSS (VSWR)	>26 dB (<1.11)	
WB RETURN LOSS (VSWR)	>30 dB (<1.07), 2 specified channels	
MAX OUTPUT POWER RATING*	10 kW rms, 3.5 kV Peak	
NB INPUT CONNECTOR	1 5/8" unflange	7/8" unflange, 7/16 f/m
WB INPUT CONNECTOR	1 5/8" unflange	7/8" unflange, 7/16 f/m
OUTPUT CONNECTOR	1 5/8" unflange	7/8" unflange, 7/16 f/m
TEMPERATURE STABILITY	< +/-1 kHz / °C	
MAX PRODUCT TEMPERATURE	70 °C	
ENVIROMENTAL CONDITION	-5 to 70 °C IP40	

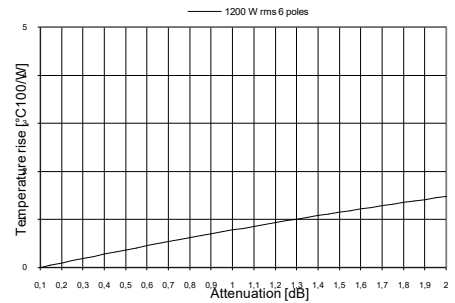


DIMENSIONS AND WEIGHT	OPTIONAL
DIMENSIONS	540 x 483 x 711 mm
L x W x H	(21.3 x 19 x 28 in)
WEIGHT	55 kg (121 lb)
FRAME	Stand alone 19" rack
COLOUR	Black & Aluminium

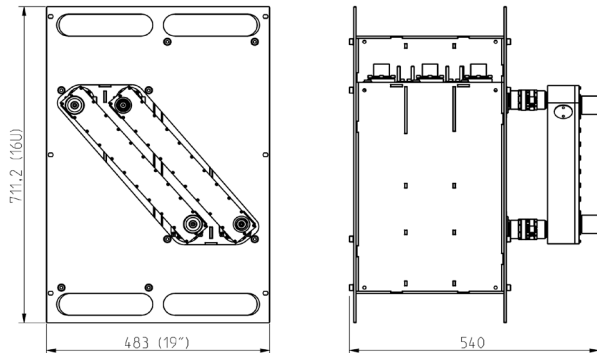
## ARTICLE: CID6C10A-2PAA 111

- CI** = Combiner type
- 3** = Frequency band
- 6** = Frequency band
- C** = Cavity based
- 10** = Cavity size
- A** = Version
- 2** = Number of cross coupling
- P** = Coating
- A** = Narrowband coupler
- A** = Wideband coupler
- 1** = Narrowband connection
- 1** = Wideband connection
- 1** = Output connection

Temperature rise / Avg. attenuation



TYPICAL DATA*	DAB
ARTICLE NO	CID6C10A-2PAA111
<b>NB INSERTION LOSS</b>	
Avg. signal bandwidth	<1.10 dB
Centre frequency	<0.90 dB
Signal band edge	± 0.77 MHz <2.00 dB
	± 0.97 MHz >15 dB
	± 1.75 MHz >45 dB
	± 2.2 MHz >45 dB
	± 3.0 MHz >45 dB
<b>WB INSERTION LOSS</b>	
	± 3.0 MHz <0.10 dB
	± 2.2 MHz <0.20 dB
	± 1.75 MHz <0.40 dB
<b>ISOLATION</b>	
NARROWBAND - WIDEBAND	>36 dB
WIDEBAND - NARROWBAND @	
	± 0.97 MHz >36 dB
	± 1.75 MHz >36 dB
	± 2.2 MHz >50 dB
	± 3.0 MHz >70 dB
NB GROUP DELAY VARIATION	<900 ns
NB MAX INPUT POWER RATING**	1.2 kW / 11 dB (crest factor)
TEMPERATURE RISE	<1.7 °C / 100 W
MASK COMPLIANT	Critical mask



\* Data in table is typical data at 205 MHz. To fulfil mask transmitter shoulder level must be >36 dB. The combiner can be tuned for other specifications or bandwidth. Please contact us for a designed specification.

\*\* Max power rating at <50 °C temprice at max frequency. Data are subjected to change without prior notice.