

# DAB/DMB Constant Impedance Combiner

3 kW rms, 6 Pole

BAND III

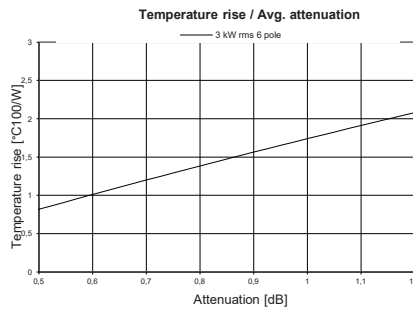
10 year GUARANTEE



SPECIFICATIONS	140 mm series	OPTIONAL
FREQUENCY	170 - 240 MHz	
BANDWIDTH	1.54 MHz	
ORDER	6 Poles, 2 cross-coupling	6 Poles without cross-coupling
APPLICATION	One guard Ch combining	Adjacent Ch combining
DAB	Critical mask	Non Critical mask.
IMPEDANCE	50 Ohm	
NB RETURN LOSS (VSWR)	>26 dB (<1.1)	
WB RETURN LOSS (VSWR)	>30 dB (<1.07), 2 specified channels	
MAX OUTPUT POWER RATING*	10 kW rms	
NB INPUT CONNECTOR	1 5/8" unflange female	7/8" unflange, 7/16 f/m
WB INPUT CONNECTOR	1 5/8" unflange female	7/8" unflange, 7/16 f/m
OUTPUT CONNECTOR	1 5/8" unflange female	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

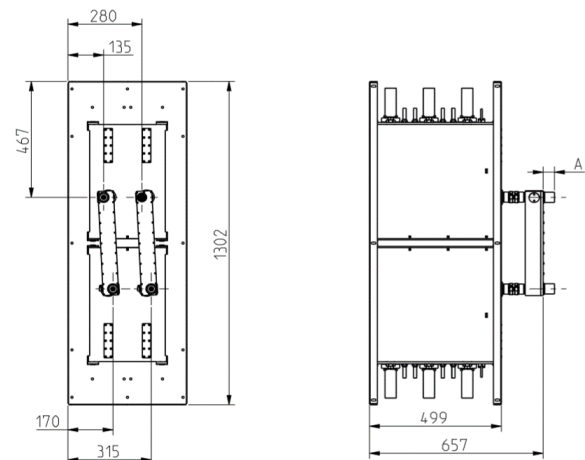
DIMENSIONS	1302 x 450 x 700 mm
L x W x H	(51.3 x 17.7 x 27.6 in)
WEIGHT	85 kg (187 lb)
FRAME	Stand alone
COLOUR	Black & Aluminium



TYPICAL DATA*	DAB
ARTICLE NO	CID6C14B-2PAAxxx
<b>NB INSERTION LOSS</b>	
Avg. signal bandwidth	<0.87 dB
Centre frequency	<0.71 dB
Signal band edge	± 0.77 MHz <1.60 dB
	± 0.97 MHz <11.0 dB
	± 1.75 MHz >42.0 dB
	± 3.0 MHz >32.0 dB
<b>WB INSERTION LOSS</b>	
	± 3.0 MHz <0.10 dB
	± 2.2 MHz <0.20 dB
	± 1.75 MHz <0.30 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**	3.0 kW / 11 dB (crest factor)
TEMPERATURE RISE	<1.5 °C / 100 W
MASK COMPLIANT	Critical mask (Case1)

## ARTICLE: CID6C14B-2PAA111

- CI** = Combiner type
  - D** = Frequency band
  - 6** = Frequency band
  - C** = Cavity based
  - 14** = Cavity size
  - B** = Version
  - 2** = Number of cross coupling
  - P** = Coating
  - A** = Narrowband coupler
  - A** = Wideband coupler
  - 1** = Narrowband connection
- A = 7/16 female, B = 7/16 male  
 7 = 7/8" unflange,  
 1 = 1 5/8" unflange
- 1** = Wideband connection
- A = 7/16 female, B = 7/16 male  
 7 = 7/8" unflange,  
 1 = 1 5/8" unflange
- 1** = Output connection
- A = 7/16 female, B = 7/16 male  
 7 = 7/8" unflange,  
 1 = 1 5/8" unflange



\* Data in table is typical data at 205 MHz. To fulfil mask transmitter shoulder level must be >36 dB. The reference spectrum includes shoulder of -36dB@±0.97MHz linearly decreasing to -40dB@±1.75MHz, -44dB@±2.2MHz and -50dB@±3.0MHz. 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.