

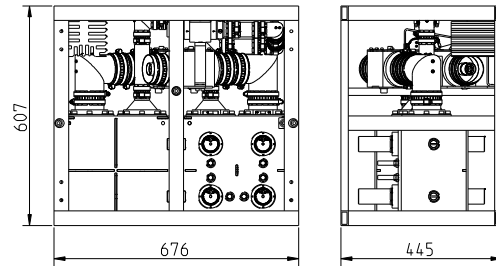
UHF Constance Impedance Combiner

6 kW rms, 4 Pole

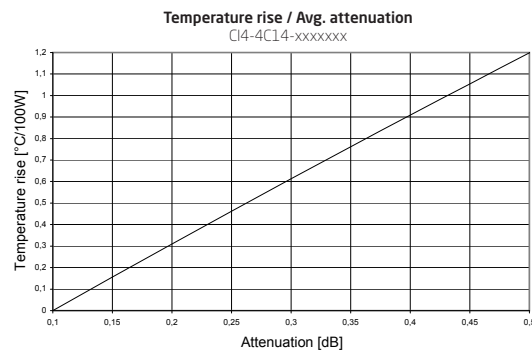
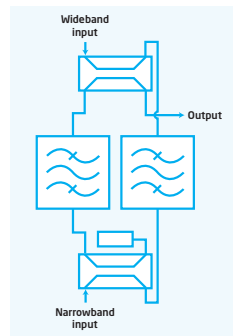
BAND IV-V



SPECIFICATIONS	140 mm Series
FREQUENCY	470 - 862 MHz
BANDWIDTH	6 - 8 MHz
STANDARD ORDER	4 Poles
OPTIONAL ORDER	4 Poles single cross coupling
APPLICATION	One guard Ch combining
ATV	Spurious suppress
DVB	Spurious suppress
ATSC	Non stringent mask
ISDB	Spurious suppress
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	15 kW rms
NB INPUT CONNECTOR	1 5/8" unflange
WB STANDARD INPUT CONNECTOR	3 1/8" unflange
WB OPTIONAL INPUT CONNECTOR	1 5/8" unflange
STANDARD OUTPUT CONNECTOR	3 1/8" unflange
OPTIONAL OUTPUT CONNECTOR	1 5/8" unflange
TEMPERATURE STABILITY	< 2 kHz / °C
MAX PRODUCT TEMPERATURE	70 °C
ENVIROMENTAL CONDITION	-5 to 70 °C IP40



DIMENSIONS AND WEIGHT	
DIMENSIONS	676 x 445 x 607 mm
L x W x H	(26.6 x 17.5 x 23.9 in)
WEIGHT	76 kg (167.5 lb)
STANDARD FRAME	Stand alone
OPTIONAL FRAME	19" rack
COLOUR	Black and aluminium



ARTICLE: CI4-4C14-0PBB 133

- CI** = Combiner type
- 4** = Frequency band
- 4** = Number of poles
- C** = Cavity based
- 14** = Cavity size
- 0** = Number of cross coupling
- P** = Coating
- B** = Narrowband coupler
- B** = Wideband coupler
- 1** = Narrowband connection
- 1** = Wideband connection
- 1** = Output connection

TYPICAL DATA*	8 MHz DVB-T	6 MHz ISDB-T	6 MHz ATSC
ARTICLE NO	CI4-4C14-0PBB133	CI4-4C14-0PBB133	CI4-4C14-0PBB133
NB INSERTION LOSS			
Avg. signal bandwidth	<0.30 dB	<0.36 dB	<0.33 dB
Centre frequency	<0.30 dB	<0.35 dB	<0.33 dB
Signal band edge	± 3.8 MHz <0.34 dB ± 4.2 MHz >0.41 dB ± 6.0 MHz >4 dB ± 12.0 MHz >28 dB	± 2.79 MHz <0.40 dB ± 3.15 MHz >0.46 dB ± 4.5 MHz >3.60 dB ± 9.0 MHz >28 dB	± 2.69 MHz <0.36 dB ± 3.5 MHz >0.42 dB ± 6.0 MHz >6 dB ± 9.0 MHz >24 dB
WB INSERTION LOSS			
	± 24 MHz <0.10 dB ± 16 MHz <0.10 dB ± 8.0 MHz <0.40 dB	± 18 MHz <0.10 dB ± 12 MHz <0.10 dB ± 6 MHz <0.45 dB	± 18 MHz <0.10 dB ± 12 MHz <0.10 dB ± 6 MHz <0.70 dB
ISOLATION			
NARROWBAND - WIDEBAND	>36 dB	>36 dB	>36 dB
WIDEBAND - NARROWBAND @	± 4.2 MHz >36 dB ± 8.0 MHz >45 dB ± 16 MHz >70 dB ± 24 MHz >85 dB	± 3.21 MHz >36 dB ± 6 MHz >45 dB ± 12 MHz >70 dB ± 18 MHz >85 dB	± 3.31 MHz >36 dB ± 6 MHz >40 dB ± 12 MHz >65 dB ± 18 MHz >80 dB
NB GROUP DELAY VARIATION	<25 ns	<30 ns	<15 ns
NB MAX INPUT POWER RATING**	6.0 kW / 13 dB (crest factor)	5.0 kW / 13 dB (crest factor)	5.6 kW / 11 dB (crest factor)
TEMPERATURE RISE	<0.6 °C / 100 W	<0.8 °C / 100 W	<0.7 °C / 100 W
MASK COMPLIANT	Spurious suppress	Spurious suppress	Non stringent mask

* Data in table is typical data at 656 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.