

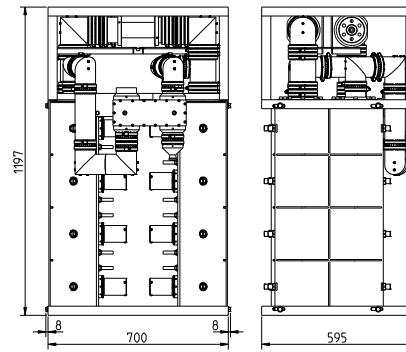
UHF Constance Impedance Combiner

10 kW rms, 8 Pole

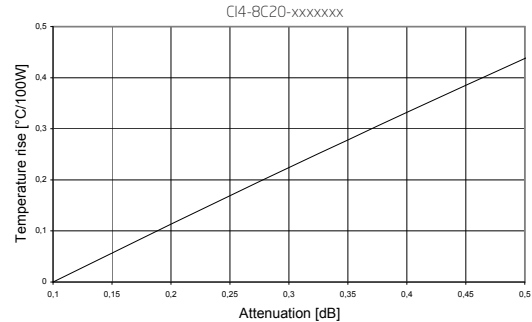
BAND IV-V



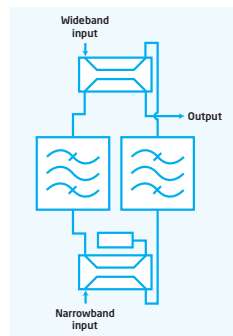
SPECIFICATIONS	200 mm Series
FREQUENCY	470 - 862 MHz
BANDWIDTH	6 - 8 MHz
STANDARD ORDER	8 Poles single cross coupling
OPTIONAL ORDER	8 Poles with or without double cross coupling
APPLICATION	One guard Ch combining
ATV	Spurious suppress
DVB	Critical mask
ATSC	Stringent mask
ISDB	Critical mask
IMPEDANCE	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	36 kW rms
NB INPUT CONNECTOR	3 1/8" unflange
WB STANDARD INPUT CONNECTOR	NAX120
WB OPTIONAL INPUT CONNECTORS	3 1/8" unflange, RL98 unflange
STANDARD OUTPUT CONNECTOR	NAX120
OPTIONAL OUTPUT CONNECTOR	3 1/8" unflange, RL98 unflange
TEMPERATURE STABILITY	< 2 kHz / °C
MAX PRODUCT TEMPERATURE	70 °C
ENVIRONMENTAL CONDITION	-5 to 70 °C IP40



Temperature rise / Avg. attenuation



DIMENSIONS AND WEIGHT	
DIMENSIONS	716 x 595 x 1197 mm
L x W x H	(28.2 x 23.4 x 47.1 in)
WEIGHT	125 kg (275.6 lb)
STANDARD FRAME	Stand alone
COLOUR	Black and aluminium



ARTICLE: CI4-8C20-1NCE 322

- CI = Combiner type
- 4 = Frequency band
- 4 = Number of poles
- C = Cavity based
- 20 = Cavity size
- 1 = Number of cross coupling
- N = Coating
- C = Narrowband coupler
- E = Wideband coupler
- 3 = Narrowband connection
- 2 = Wideband connection
- 2 = Output connection

TYPICAL DATA*	8 MHz DVB-T	6 MHz ISDB-T	6 MHz ATSC
ARTICLE NO	CI4-8C20-1NCE322	CI4-8C20-1NCE322	CI4-8C20-1NCE322
NB INSERTION LOSS			
Avg. signal bandwidth	<0.48 dB	<0.59 dB	<0.47 dB
Centre frequency	<0.39 dB	<0.48 dB	<0.44 dB
Signal band edge	± 3.8 MHz <1.28 dB	± 2.79 MHz <1.21 dB	± 2.69 MHz <0.59 dB
	± 4.2 MHz >15 dB	± 3.15 MHz >15 dB	± 3.5 MHz >1.08 dB
	± 6.0 MHz >26 dB	± 4.5 MHz >31 dB	± 6.0 MHz >29 dB
	± 12.0 MHz >51 dB	± 9.0 MHz >61 dB	± 9.0 MHz >63 dB
WB INSERTION LOSS			
	± 24 MHz <0.10 dB	± 18 MHz <0.10 dB	± 18 MHz <0.10 dB
	± 16 MHz <0.10 dB	± 12 MHz <0.10 dB	± 12 MHz <0.10 dB
	± 8.0 MHz <0.20 dB	± 6 MHz <0.20 dB	± 6 MHz <0.20 dB
ISOLATION			
NARROWBAND - WIDEBAND	>36 dB	>36 dB	>36 dB
WIDEBAND - NARROWBAND @			
	± 4.2 MHz >36 dB	± 3.21 MHz >36 dB	± 3.31 MHz >36 dB
	± 8.0 MHz >80 dB	± 6 MHz >80 dB	± 6 MHz >75 dB
	± 16 MHz >115 dB	± 12 MHz >115 dB	± 12 MHz >110 dB
	± 24 MHz >135 dB	± 18 MHz >135 dB	± 18 MHz >130 dB
NB GROUP DELAY VARIATION	<600 ns	<500 ns	<110 ns
NB MAX INPUT POWER RATING**	10.0 kW / 13 dB (crest factor)	8.4 kW / 13 dB (crest factor)	10.8 kW / 11 dB (crest factor)
TEMPERATURE RISE	<0.4 °C / 100 W	<0.5 °C / 100 W	<0.4 °C / 100 W
MASK COMPLIANT	Critical mask	Critical mask	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.