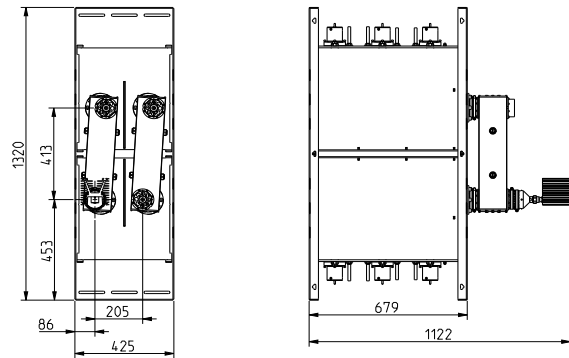


VHF Constant Impedance Combiner

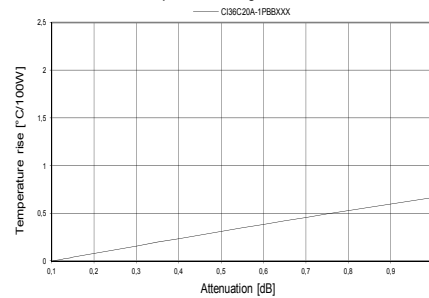
10 kW rms, 6 Pole



SPECIFICATIONS	200 mm Series
FREQUENCY	174 - 230 MHz
BANDWIDTH	7 - 8 MHz (6 MHz on request)
STANDARD ORDER	6 Poles single cross coupling
APPLICATION	Adjacent Ch combining
ATV	Spurious suppress
DVB	Non Critical mask
ATSC	-
ISDB	-
IMPEDANCE	50 Ohm
NB RETURN LOSS (VSWR)	>26 dB (<1.10)
WB RETURN LOSS (VSWR)	>30 dB (<1.07), 2 specified channels
MAX OUTPUT POWER RATING**	30 kW rms
NB STANDARD INPUT CONNECTOR	3 1/8" unflange
WB STANDARD INPUT CONNECTOR	3 1/8" unflange
STANDARD OUTPUT CONNECTOR	3 1/8" unflange
TEMPERATURE STABILITY	< 2 kHz / °C
MAX PRODUCT TEMPERATURE	70 °C
ENVIROMENTAL CONDITION	-5 to 70 °C IP40



DIMENSIONS AND WEIGHT	OPTIONAL	
DIMENSIONS	1122 x 425 x 1320 mm (44.2 x 16.7 x 52.0 in)	
WEIGHT	90 kg (200 lb)	
FRAME	Stand alone	19" rack
COLOUR	Black & Aluminium	



TYPICAL DATA*	8 MHz DVB-T	7 MHz DVB-T
ARTICLE NO	C136C20B-1PCCxxx	C136C20B-1PCCxxx
NB INSERTION LOSS		
Avg. signal bandwidth	<0.25 dB	<0.27 dB
Centre frequency	<0.22 dB	<0.23 dB
Signal band edge	± 3.8 MHz <0.49 dB ± 4.2 MHz >4.00 dB ± 6.0 MHz >16.0 dB ± 12.0 MHz >41.0 dB	± 3.33 MHz <0.51 dB ± 3.7 MHz >4.00 dB ± 5.25 MHz >16.0 dB ± 10.5 MHz >41.0 dB
WB INSERTION LOSS		
	± 24 MHz <0.10 dB ± 16 MHz <0.10 dB ± 8.0 MHz <0.20 dB	± 21 MHz <0.10 dB ± 14 MHz <0.10 dB ± 7.0 MHz <0.20 dB
ISOLATION		
NARROWBAND - WIDEBAND	>36 dB	>36 dB
WIDEBAND - NARROWBAND @		
	± 4.2 MHz >36 dB ± 8.0 MHz >60 dB ± 16 MHz >85 dB ± 24 MHz >95 dB	± 3.7 MHz >36 dB ± 7.0 MHz >60 dB ± 14 MHz >85 dB ± 21 MHz >95 dB
NB GROUP DELAY VARIATION	<285 ns	<300 ns
NB MAX INPUT POWER RATING**	10 kW / 13 dB (crest factor)	10 kW / 13 dB (crest factor)
TEMPERATURE RISE	<0.1 °C / 100 W	<0.1 °C / 100 W
MASK COMPLIANT	Non Critical mask	Non Critical mask

ARTICLE: C136C20B-1PCC333

- C**I = Combiner type
- 3** = Frequency band
- 6** = No. of poles
- C** = Cavity based
- 20** = Cavity size
- B** = Version
- 1** = Number of cross coupling
- P** = Coating
- C** = Narrowband coupler
- C** = Wideband coupler
- 3** = Narrowband connection
- 3** = Wideband connection
- 3** = Output connection

* 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.