

# VHF Constant Impedance Combiner

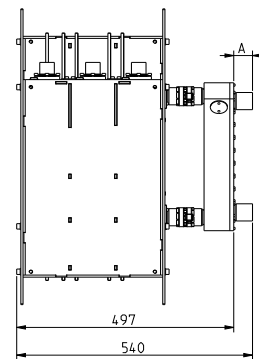
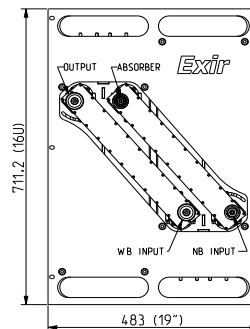
2.4 kW rms, 6 Pole

BAND III

10 year GUARANTEE



SPECIFICATIONS	100 mm Series
FREQUENCY	174 - 240 MHz
BANDWIDTH	7 - 8 MHz (6 MHz on request)
STANDARD ORDER	6 Poles single cross coupling
APPLICATION	Adjacent Ch combining
ATV	Spurious supress
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**	5 kW rms
NB STANDARD INPUT CONNECTOR	7/8" unflange
NB OPTIONAL INPUT CONNECTORS	1 5/8" unflange, 7/16 f/m, N f/m
WB STANDARD INPUT CONNECTOR	1 5/8" unflange
WB OPTIONAL INPUT CONNECTORS	7/8" unflange, 7/16 f/m, N f/m
STANDARD OUTPUT CONNECTOR	1 5/8" unflange
OPTIONAL OUTPUT CONNECTORS	7/8" unflange, 7/16 f/m, N f/m
TEMPERATURE STABILITY	< 2 kHz / °C
MAX PRODUCT TEMPERATURE	70 °C
ENVIROMENTAL CONDITION	-5 to 70 °C IP40

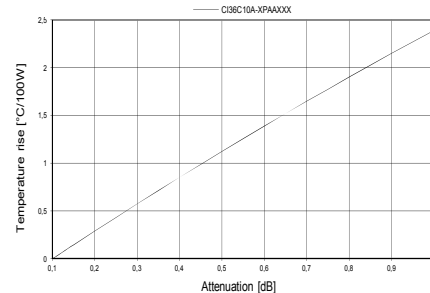


DIMENSIONS AND WEIGHT	OPTIONAL
DIMENSIONS	540 x 483 x 711.2 mm
L x W x H	(21.3 x 19.0 x 28.0 in)
WEIGHT	49 kg (108 lb)
FRAME	Stand alone 19" rack
COLOUR	Black & Aluminium

## ARTICLE: CI36C10A-1PAA 711

- CI = Combiner type
- 3 = Frequency band
- 6 = No. of poles
- C = Cavity based
- 10 = Cavity size
- A = Version
- 1 = Number of cross coupling
- P = Coating
- A = Narrowband coupler
- A = Wideband coupler
- 7 = Narrowband connection
- 1 = Wideband connection
- 1 = Output connection

Temperature rise / Avg. attenuation



TYPICAL DATA*	8 MHz DVB-T	7 MHz DVB-T
ARTICLE NO	CI36C10A-1PAA711	CI36C10A-1PAA711
<b>NB INSERTION LOSS</b>		
Avg. signal bandwidth	<0.32 dB	<0.34 dB
Centre frequency	<0.30 dB	<0.30 dB
Signal band edge	± 3.8 MHz <0.60 dB ± 4.2 MHz >4.00 dB ± 6.0 MHz >16.0 dB ± 12.0 MHz >41.0 dB	± 3.33 MHz <0.65 dB ± 3.7 MHz >4.00 dB ± 5.25 MHz >16.0 dB ± 10.5 MHz >41.0 dB
<b>WB INSERTION LOSS</b>		
	± 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
<b>ISOLATION</b>		
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	<300 ns	<300 ns
NB MAX INPUT POWER RATING**	2.4 kW / 13 dB (crest factor)	2.4 kW / 13 dB (crest factor)
TEMPERATURE RISE	<0.6 °C / 100 W	<0.7 °C / 100 W
MASK COMPLIANT	Non Critical mask	Non Critical mask

\* Data in table is typical data at 205 MHz. To fulfil mask transmitter shoulder level must be >35 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.