

VHF Constant Impedance Combiner

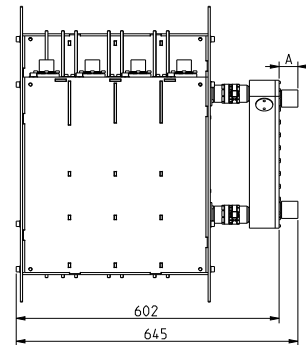
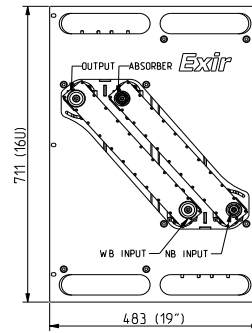
2.2 kW rms, 8 Pole

BAND III

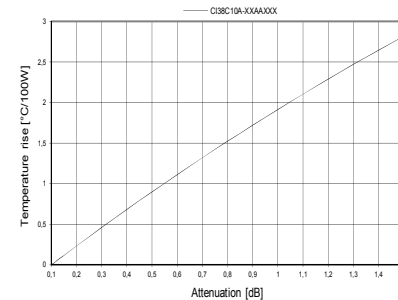
10 year GUARANTEE



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 suppress
DVB	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	645 x 483 x 711 mm
L x W x H	(25.4 x 19.0 x 28.0 in)
WEIGHT	59 kg (130 lb)
FRAME	Stand alone 19" rack
COLOUR	Black & Aluminium



TYPICAL DATA*	8 MHz DVB-T	7 MHz DVB-T
ARTICLE NO	CI38C10A-1PAAxxx	CI38C10A-1PAAxxx
NB INSERTION LOSS		
Avg. signal bandwidth	<0.45 dB	<0.48 dB
Centre frequency	<0.40 dB	<0.45 dB
Signal band edge	± 3.8 MHz <1.05 dB ± 4.2 MHz >14.0 dB ± 6.0 MHz >26.0 dB ± 12.0 MHz >51.0 dB	± 3.33 MHz <1.05 dB ± 3.7 MHz >14.00 dB ± 5.25 MHz >26.0 dB ± 10.5 MHz >51.0 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 >80 dB ± 16 MHz >115 dB ± 24 MHz >135 dB	± 3.7 MHz >36 dB ± 7.0 MHz >60 dB ± 14 MHz >85 dB ± 21 MHz >95 dB
NB GROUP DELAY VARIATION	<480 ns	<440 ns
NB MAX INPUT POWER RATING**	2.2 kW / 13 dB (crest factor)	2.2 kW / 13 dB (crest factor)
TEMPERATURE RISE	<0.8 °C / 100 W	<0.9 °C / 100 W
MASK COMPLIANT	Critical mask	Critical mask

ARTICLE: CI38C10A-1PAA 711

CI = Combiner type
3 = Frequency band
8 = 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
 C= N female, D= N male
 A= 7/16 female, B= 7/16 male
 7= 7/8" unflange, 1= 1 5/8" unflange
1 = Wideband connection
 C= N female, D= N male
 A= 7/16 female, B= 7/16 male
 7= 7/8" unflange, 1= 1 5/8" unflange
1 = Output connection
 C= N female, D= N male
 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 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.