

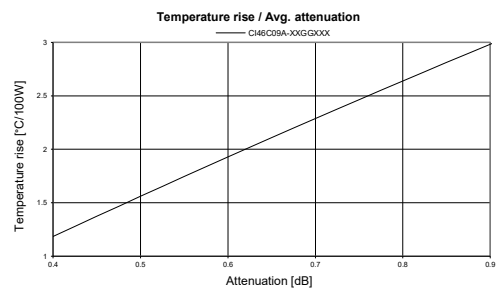
UHF Constant Impedance Combiner

2 kW rms, 6 Pole

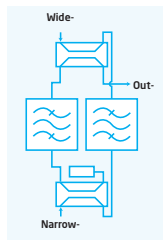
BAND IV-V

10 year GUARANTEE

SPECIFICATIONS	90 mm Series
FREQUENCY	470 - 862 MHz
BANDWIDTH	6 - 8 MHz
STANDARD ORDER	6 Poles single cross coupling
OPTIONAL ORDER	6 Poles with double cross coupling or without
APPLICATION	Adjacent Ch combining
ATV	Spurious suppres
DVB	Non critical mask
ATSC	Stringent mask
ISDB	Non 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*	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	
DIMENSIONS	455 x 235 x 693 mm
L x W x H	(17.9 x 9.2 x 27.3 in)
WEIGHT	22.5 kg (49.6 lb)
FRAME	Stand alone
COLOUR	Black & aluminium



ARTICLE: CI46C09A-1PGG711

- CI** = Combiner type
- 4** = Frequency band
- 6** = Number of poles
- C** = Cavity based
- 09** = Cavity size
- A** = Version
- 1** = Number of cross coupling
- P** = Coating
- G** = Narrowband coupler
- G** = Wideband coupler
- 7** = Narrowband connection
- 1** = Wideband connection
- 1** = Output connection

TYPICAL DATA*	8 MHz DVB-T/2	6 MHz ISDB-T	6 MHz ATSC
ARTICLE NO	CI46C09A-1PGG711	CI46C09A-1PGG711	CI46C09A-1PGG711
NB INSERTION LOSS			
Avg. signal bandwidth	<0.68 dB	<0.72 dB	<0.80 dB
Centre frequency	<0.58 dB	<0.67 dB	<0.79 dB
Signal band edge	± 3.88 MHz <1.80 dB (3,8 MHz 1,5 dB)	± 2.79 MHz <1.06 dB	± 2.69 MHz <1.01 dB
	± 4.2 MHz >4.00 dB	± 3.15 MHz >1.00 dB	± 3.5 MHz >1.00 dB
	± 6.0 MHz >16.0 dB	± 4.5 MHz >17.0 dB	± 6.0 MHz >29.0 dB
	± 12.0 MHz >41.0 dB	± 9.0 MHz >47.0 dB	± 9.0 MHz >63.0 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 >60 dB	± 6 MHz >65 dB	± 6 MHz >75 dB
	± 16 MHz >85 dB	± 12 MHz >85 dB	± 12 MHz >95 dB
	± 24 MHz >95 dB	± 18 MHz >100 dB	± 18 MHz >110 dB
NB GROUP DELAY VARIATION	<235 ns	<110 ns	<70 ns
NB MAX INPUT POWER RATING**	2.0 kW / 13 dB (crest factor)	1.8 kW / 13 dB (crest factor)	1.6 kW / 11 dB (crest factor)
TEMPERATURE RISE	<2.2 °C / 100 W	<2.4 °C / 100 W	<2.6 °C / 100 W
MASK COMPLIANT	Non critical mask	Non critical mask	Stringent mask

* Data in table is typical data at 656 MHz. To fulfil mask transmitter shoulder level must be >37 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.