

UHF Constant Impedance Combiner

1.7 kW rms, 8 Pole

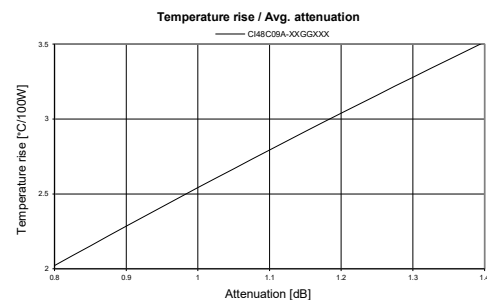
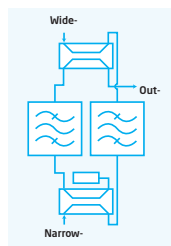
BAND IV-V

10 year GUARANTEE



SPECIFICATIONS	90 mm Series
FREQUENCY	470 - 862 MHz
BANDWIDTH	6 - 8 MHz
STANDARD ORDER	8 Poles single cross coupling
OPTIONAL ORDER	8 Poles with double cross coupling or without
APPLICATION	Adjacent Ch combining
ATV	Spurious suppres
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*	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	550 x 235 x 693 mm
L x W x H	(21.6 x 9.2 x 27.3 in)
WEIGHT	28.2 kg (62.2 lb)
FRAME	Stand alone
COLOUR	Black & aluminium



ARTICLE: CI48C09A-1PGG711

- CI** = Combiner type
- 4** = Frequency band
- 8** = 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	CI48C09A-1PGG711	CI48C09A-1PGG711	CI48C09A-1PGG711
NB INSERTION LOSS			
Avg. signal bandwidth	<1.00 dB	<1.29 dB	<1.03 dB
Centre frequency	<0.82 dB	<1.09 dB	<0.95 dB
Signal band edge	± 3.88 MHz <2.91 dB (3,8 MHz 2,30 dB)	± 2.79 MHz <2.75 dB	± 2.69 MHz <1.40 dB
	± 4.2 MHz >14.0 dB	± 3.15 MHz >14.0 dB	± 3.5 MHz >2.30 dB
	± 6.0 MHz >26.0 dB	± 4.5 MHz >31.0 dB	± 6.0 MHz >29.0 dB
	± 12.0 MHz >51.0 dB	± 9.0 MHz >61.0 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 >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	<380 ns	<450 ns	<105 ns
NB MAX INPUT POWER RATING**	1.7 kW / 13 dB (crest factor)	1.3 kW / 13 dB (crest factor)	1.6 kW / 11 dB (crest factor)
TEMPERATURE RISE	<2.5°C / 100 W	<3.3°C / 100 W	<2.6°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 >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.