

UHF Constant Impedance Combiner

2.3 kW rms, 4 Pole

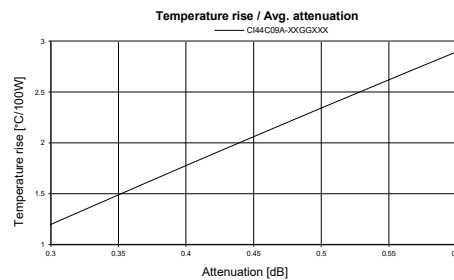
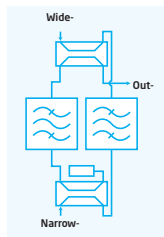
BAND IV-V

10 YEAR GUARANTEE



SPECIFICATIONS	90 mm Series
FREQUENCY	470 - 862 MHz
BANDWIDTH	6 - 8 MHz
STANDARD ORDER	4 Poles
OPTIONAL ORDER	4 Poles with single cross coupling
APPLICATION	One guard Ch combining
ATV	Spurious suppress
DVB	Spurious suppress
ATSC	Non stringent mask
ISDB	Spurious suppress
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	360 x 235 x 693 mm
L x W x H	(14.2 x 9.2 x 27.3 in)
WEIGHT	17 kg (37.5 lb)
FRAME	Stand alone/ 27" rack
COLOUR	Black & aluminium



ARTICLE: CI44C09A-0PGG711

- CI** = Combiner type
- 4** = Frequency band
- 4** = Number of poles
- C** = Cavity based
- 09** = Cavity size
- A** = Version
- 0** = 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	CI44C09A-0PGG711	CI44C09A-0PGG711	CI44C09A-0PGG711
NB INSERTION LOSS			
Avg. signal bandwidth	<0.41 dB	<0.51 dB	<0.46 dB
Centre frequency	<0.41 dB	<0.50 dB	<0.45 dB
Signal band edge	± 3.8 MHz <0.49 dB ± 4.2 MHz >0.50 dB ± 6.0 MHz >3.50 dB ± 12.0 MHz >28.0 dB	± 2.79 MHz <0.60 dB ± 3.15 MHz >0.60 dB ± 4.5 MHz >3.81 dB ± 9.0 MHz >28.0 dB	± 2.69 MHz <0.53 dB ± 3.5 MHz >0.57 dB ± 6.0 MHz >9.00 dB ± 9.0 MHz >24.0 dB
WB INSERTION LOSS			
	± 24 MHz <0.10 dB ± 16 MHz <0.10 dB ± 8.0 MHz <0.40 dB	± 18 MHz <0.10 dB ± 12 MHz <0.10 dB ± 6 MHz <0.45 dB	± 18 MHz <0.10 dB ± 12 MHz <0.10 dB ± 6 MHz <0.70 dB
ISOLATION			
NARROWBAND - WIDEBAND	>36 dB	>36 dB	>36 dB
WIDEBAND - NARROWBAND @	± 4.2 MHz >36 dB ± 8.0 MHz >45 dB ± 16 MHz >70 dB ± 24 MHz >85 dB	± 3.21 MHz >36 dB ± 6 MHz >45 dB ± 12 MHz >70 dB ± 18 MHz >85 dB	± 3.31 MHz >36 dB ± 6 MHz >40 dB ± 12 MHz >65 dB ± 18 MHz >80 dB
NB GROUP DELAY VARIATION	<25 ns	<30 ns	<15 ns
NB MAX INPUT POWER RATING**	2.3 kW / 13 dB (crest factor)	1.8 kW / 13 dB (crest factor)	2.0 kW / 11 dB (crest factor)
TEMPERATURE RISE	<1.8 °C / 100 W	<2.4 °C / 100 W	<2.1 °C / 100 W
MASK COMPLIANT	Spurious suppress	Spurious suppress	Non stringent mask

* Data in table is typical data at 666 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.