

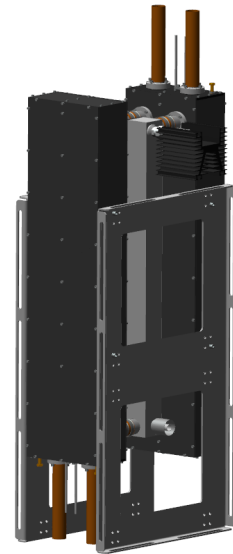
FM Constant Impedance Combiner

7 kW, 2 Pole

BAND II

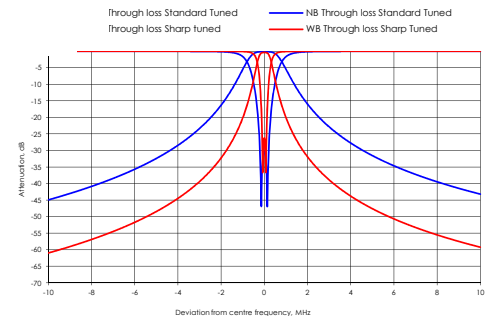
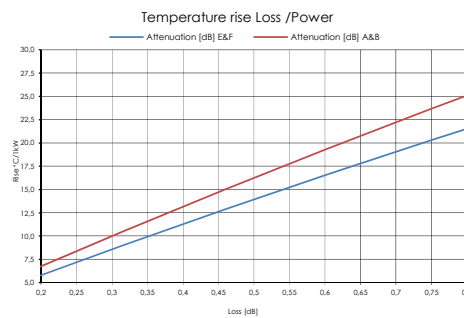
10 year GUARANTEE

SPECIFICATIONS	110 mm Series	Option
FREQUENCY	87 - 108 MHz	
STANDARD ORDER	2 Poles with heat sink	with temperature compensation, without heat sink
APPLICATION	FM combining & Spurious suppress	
IMPEDANCE	50 Ohm	
NB RETURN LOSS (VSWR)	>30 dB (1.07)	
WB RETURN LOSS (VSWR)	>30 dB (1.07)	
MAX OUTPUT POWER RATING**	15 kW rms (1 5/8" output)	
NB INPUT CONNECTOR	1 5/8" unflange	N female/ male, 7/16 female/ male 7/8" unflange/ flange, 1 5/8" flange
WB INPUT CONNECTOR	1 5/8" unflange	N female/ male, 7/16 female/ male 7/8" unflange/ flange, 1 5/8" flange
OUTPUT CONNECTOR	1 5/8" unflange	N female/ male, 7/16 female/ male 7/8" unflange/ flange, 1 5/8" flange
TEMPERATURE STABILITY	≤ 3 kHz / °C (without temp. comp.)	≤ 0.5 kHz / °C (with temp. comp.)
MAX PRODUCT TEMPERATURE	70 °C	
ENVIRONMENTAL CONDITION	0 to 70 °C IP40	



DIMENSIONS AND WEIGHT

DIMENSIONS	500 x 278 x 1320 mm (19.7 x 11 x 52 in)
WEIGHT	43 kg (94.8 lb)
STANDARD FRAME	Stand alone
COLOUR	Black and aluminium

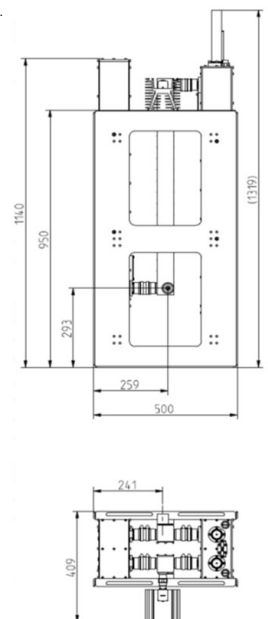


TYPICAL DATA*	STANDARD TUNED	SHARP TUNED
ARTICLE NO	CI22C11x-0PAAxxx	CI22C11x-0PAAxxx
NB INSERTION LOSS		
Centre frequency	<0.30 dB	<0.75 dB
Effective passband @ ± 200 KHz	<0.30 dB	<0.75 dB
± 150 KHz	<0.30 dB	<1.00 dB
± 200 KHz	<0.30 dB	<1.40 dB
± 0.6 MHz	>0.6 dB	>11.0 dB
± 1.0 MHz	>3.0 dB	>19.0 dB
± 2.0 MHz	>12.0 dB	>31.0 dB
± 2.5 MHz	>15.5 dB	>35.0 dB
NB GROUP DELAY VARIATION		
(typical)		
± 150 KHz	<6 ns (5 ns)	<105 ns (100 ns)
± 200 KHz	<10 ns (8 ns)	<135 ns (130 ns)
WB INSERTION LOSS		
± 0.8 MHz	-	<0.30 dB
± 1.0 MHz	-	<0.20 dB
± 1.5 MHz	<1.00 dB	<0.10 dB
± 2.0 MHz	<0.40 dB	<0.07 dB
± 3.0 MHz	<0.13 dB	<0.06 dB
ISOLATION		
NARROWBAND - WIDEBAND	>36 dB	>36 dB
WIDEBAND - NARROWBAND @		
± 1.0 MHz	>39 dB	>55 dB
± 1.5 MHz	>43 dB	>62 dB
± 3.0 MHz	>54 dB	>74 dB
NB MAX INPUT POWER RATING**	7.0 kW RMS (6 kW without heat sink)	2.6 kW RMS (2 kW without heat sink)

Article structure:

ARTICLE: CI22C11A-0PAA111

- CI** = Combiner Type
- 2** = Frequency band
- 2** = Number of poles
- C** = Cavity based
- 11** = Cavity size
- A** = Version
- A = without heat sink & without temp. comp.
- B = without heat sink & with temp. comp.
- E = with heat sink & without temp. comp.
- F = with heat sink & with temp. comp.
- 0** = Number of cross coupling
- 0 = without
- P** = Coating
- P = blackpainted
- A** = Narrowband coupler
- A = 60mm
- A** = Wideband coupler
- A = 60mm
- 1** = Narrowband connection
- C = N female, D = N male
- A = 7/16 female, B = 7/16 male
- 7 = 7/8" unflange, J = 7/8" flange
- 1 = 1 5/8" unflange, E = 1 5/8" flange
- 1** = Wideband connection
- C = N female, D = N male
- A = 7/16 female, B = 7/16 male
- 7 = 7/8" unflange, J = 7/8" flange
- 1 = 1 5/8" unflange, E = 1 5/8" flange
- 1** = Output connection
- C = N female, D = N male
- A = 7/16 female, B = 7/16 male
- 7 = 7/8" unflange, J = 7/8" flange



* Data in table is typical data. at 100 MHz. The combiner can be tuned for other specifications or bandwidth. Please contact us for a designed specification.

** All average power values and technical data refer to an ambient temperature of +20 °C with normal airflow. The product can have a maximum surface temperature of +70 °C. Maximum power capacity may be lower depending on channel allocation. Data are subjected to change without prior notice.