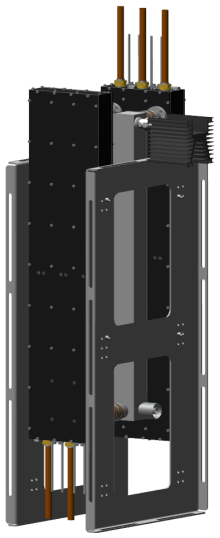
FM Constant Impedance Combiner

1.4 kW, 3 Pole

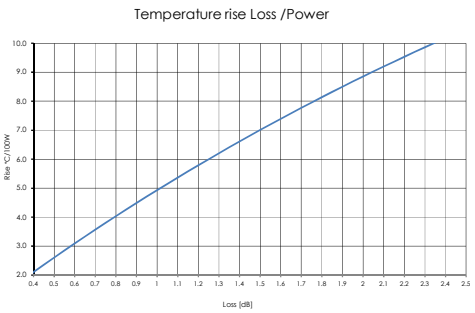
BAND II

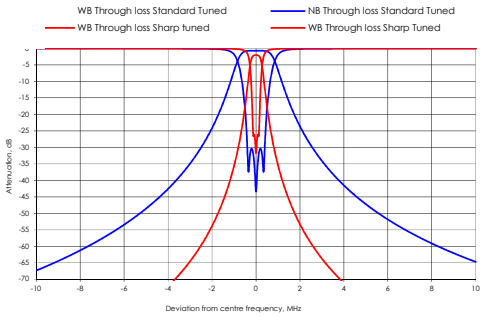
10 year GUARANTEE

SPECIFICATIONS	60 mm Series	Option
FREQUENCY	87 - 108 MHz	
STANDARD ORDER	3 Poles	with temperature compensation
APPLICATION	FM combining & Spurious supress	
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	
ENVIROMENTAL CONDITION	0 to 70 °C IP40	



DIMENSIONS AND WEIGHT	
DIMENSIONS L x W x H	500 x 286 x 1320 mm (19.7 x 11.3 x 52 in)
WEIGHT	37 kg (81.6 lb)
STANDARD FRAME	Stand alone
COLOUR	Black and aluminium

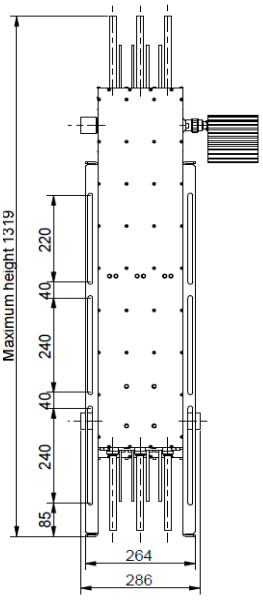


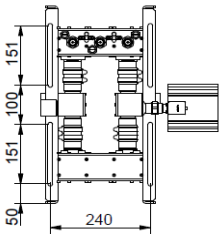


TYPICAL DATA*		STANDARD TUNED	SHARP TUNED
ARTICLE NO		CI23C06x-0PAAxxx	CI23C06x-0PAAxxx
NB INSERTION LOSS			
Centre frequency		<0.75 dB	<2.10 dB
Effective passband @ ± 200 KHz		<0.75 dB	<2.10 dB
	± 150 KHz	<0.75 dB	<2.50 dB
	± 200 KHz	<0.75 dB	<3.10 dB
	± 0.6 MHz	>1.0 dB	>20.0 dB
	± 1.0 MHz	>6.0 dB	>33.0 dB
	± 2.0 MHz	>22.0 dB	>50.0 dB
	± 2.5 MHz	>28.0 dB	>57.0 dB
NB GOUPDELAY VARIATION			
(typical)	± 150 KHz	<10 ns (5 ns)	<190 ns (185 ns)
	± 200 KHz	<15 ns (10 ns)	<310 ns (305 ns)
WB INSERTION LOSS			
	± 0.6 MHz	-	<0.55 dB
	± 0.8 MHz	-	<0.30 dB
	± 1.0 MHz	-	<0.20 dB
	± 1.5 MHz	<0.45 dB	<0.15 dB
	± 2.0 MHz	<0.25 dB	<0.10 dB
	± 3.0 MHz	<0.10 dB	<0.10 dB
ISOLATION			
NARROWBAND - WIDEBAND		>36 dB	>36 dB
WIDEBAND - NARROWBAND @			
	± 1.0 MHz	>42 dB	>69 dB
	± 1.5 MHz	>51 dB	>79 dB
	± 3.0 MHz	>68 dB	>96 dB
NB MAX INPUT POWER RATING**		1.4 KW RMS	540 W RMS

Article structure:
ARTICLE: CI23C06E-0PAA111

CI = Combiner Type
2 = Frequency band
3 = Number of poles
C = Cavity based
06 = Cavity size
E = Version
E = without temp. comp. F = 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
1= 1 5/8" unflange, E= 1 5/8" 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.

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