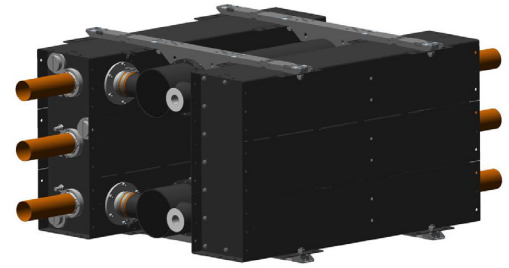


FM Constant Impedance Combiner

20 kW, 3 Pole

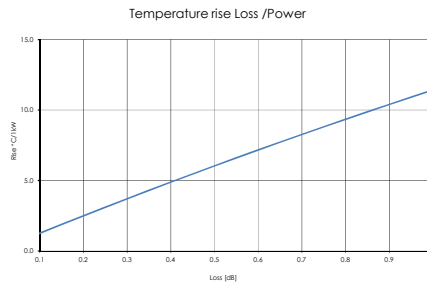
SPECIFICATIONS	200 mm Series	Option
FREQUENCY	87 - 108 MHz	
STANDARD ORDER	3 Poles	with temperature compensation
APPLICATION	FM combining & Spurious suppress	
IMPEDANCE	50 Ohm	
NB RETURN LOSS (VSWR)	>30 dB (1.07)	
WB RETURN LOSS (VSWR)	>30 dB (1.07)	
MAX OUTPUT POWER RATING**	15 kW rms (1 5/8" output), 49 kW rms (3 1/8" output), 80 kW rms (4 1/2" output)	
NB INPUT CONNECTOR	3 1/8" unflange	1 5/8" unflange 4 1/2" unflange
WB INPUT CONNECTOR	3 1/8" unflange	1 5/8" unflange 4 1/2" unflange
OUTPUT CONNECTOR	3 1/8" unflange	1 5/8" unflange 4 1/2" unflange
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	



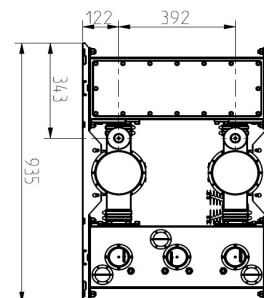
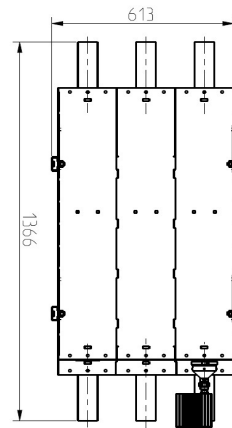
Article structure: ARTICLE: CI23C20B-0PBB333

CI = Combiner Type
2 = Frequency band
3 = Number of poles
C = Cavity based
20 = Cavity size
B = Version
 B = without temp. comp. C = with temp. comp.
0 = Number of cross coupling
 0 = without
P = Coating
 P = blackpainted
B = Narrowband coupler
 B = 159mm
 E = 60mm U-shape
B = Wideband coupler
 B = 159mm
 E = 60mm U-shape
3 = Narrowband connection
 1 = 1 5/8" unflange
 3 = 3 1/8" unflange, 4 = 4 1/2" unflange
3 = Wideband connection
 1 = 1 5/8" unflange
 3 = 3 1/8" unflange, 4 = 4 1/2" unflange
3 = Output connection
 1 = 1 5/8" unflange
 3 = 3 1/8" unflange, 4 = 4 1/2" unflange

DIMENSIONS AND WEIGHT	
DIMENSIONS	1366 x 613 x 935 mm
L x W x H	(53.8 x 24.1 x 36.8 in)
WEIGHT	115 kg (253.5 lb)
STANDARD FRAME	Stand alone
COLOUR	Black and aluminium



TYPICAL DATA*	STANDARD TUNED	SHARP TUNED
ARTICLE NO	CI23C20x-0PBBxxx	CI23C20x-0PBBxxx
NB INSERTION LOSS		
Centre frequency	<0.25 dB	<0.65 dB
Effective passband @ ± 200 KHz	<0.25 dB	<0.65 dB
± 150 KHz	<0.25 dB	<0.80 dB
± 200 KHz	<0.25 dB	<1.20 dB
± 0.6 MHz	>0.6 dB	>20.0 dB
± 1.0 MHz	>6.0 dB	>34.0 dB
± 2.0 MHz	>22.0 dB	>50.0 dB
± 2.5 MHz	>28.0 dB	>55.0 dB
NB GOUPDELAY VARIATION		
(typical)		
± 150 KHz	<6 ns (5 ns)	<230 ns (225 ns)
± 200 KHz	<10 ns (8 ns)	<435 ns (430 ns)
WB INSERTION LOSS		
± 0.8 MHz	-	<0.12 dB
± 1.0 MHz	-	<0.09 dB
± 1.5 MHz	<0.23 dB	<0.07 dB
± 2.0 MHz	<0.10 dB	<0.06 dB
± 3.0 MHz	<0.07 dB	<0.06 dB
ISOLATION		
NARROWBAND - WIDEBAND	>36 dB	>36 dB
WIDEBAND - NARROWBAND @		
± 1.0 MHz	>42 dB	>70 dB
± 1.5 MHz	>51 dB	>80 dB
± 3.0 MHz	>68 dB	>96 dB
NB MAX INPUT POWER RATING**	20 KW RMS	7 kW RMS



* 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.