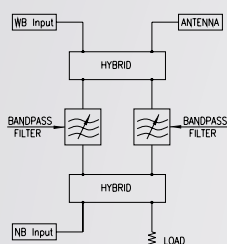


UC/FM/LB2-6

FM DIRECTIONAL FILTER TYPE COMBINER

FEATURES

- FM double bridge channel combiner
- 2 pole / 200 mm (7.9 in)
- adjustable selectivity
- temperature compensated



ELECTRICAL AND MECHANICAL DATA

COMBINER TYPE	UC/FM/LB2-6/A		UC/FM/LB2-6/C	
FREQUENCY RANGE				
- wideband input	87.5 ÷ 108 MHz		87.5 ÷ 108 MHz	
- narrowband input	Tunable over entire FM range		Tunable over entire FM range	
INPUTS AND OUTPUT IMPEDANCE				
	50 ohm		50 ohm	
RETURN LOSS				
- wideband input	≥ 26 dB		≥ 26 dB	
- narrowband input (at carrier fo)	≥ 30 dB		≥ 30 dB	
INSERTION LOSS (at carrier fo)				
NB input with freq. spacing ±2.0 MHz	≤ 0.40 dB		≤ 0.40 dB	
NB input with freq. spacing ±1.6 MHz	≤ 0.45 dB		≤ 0.45 dB	
WB input	≤ 0.10 dB		≤ 0.10 dB	
ISOLATION (at carrier fo)				
- Narrowband input to wideband input	≥ 32 dB		≥ 32 dB	
- Wideband input to narrowband input	≥ 50 dB		≥ 50 dB	
GROUP DELAY				
(With 1.6 MHz frequency spacing)	≤ 25 ns at fo ±100 kHz		≤ 25 ns at fo ±100 kHz	
	≤ 50 ns at fo ±150 kHz		≤ 50 ns at fo ±150 kHz	
MAX POWER RATINGS / freq. spacing (MHz)				
	±2.0	±1.6	±2.0	±1.6
- Narrowband input	6 kW	5 kW	6 kW	5 kW
- Wideband input	15 kW	15 kW	25 kW	25 kW
- Total output	15 kW	15 kW	25 kW	25 kW
OPERATING TEMPERATURE RANGE				
	-10 to + 45°C (+14 to +113°F)		-10 to + 45°C (+14 to +113°F)	
OVER TEMPERATURE*				
	typical 30 K at max NB input power		typical 30 K at max NB input power	
INPUT PORTS				
- Narrowband input	7/8" EIA		1-5/8" Unfl.	
- Wideband input	1-5/8" Unfl.		3-1/8" Unfl.	
OUTPUT PORT				
	1-5/8" Unfl.		3-1/8" Unfl.	
WEIGHT (approx)				
	50 kg (110 lb)		60 kg (132 lb)	

* referred to ambient temperature. Recommended: [AmbientTemp. + OverTemp.] ≤ 70°C (158°F)

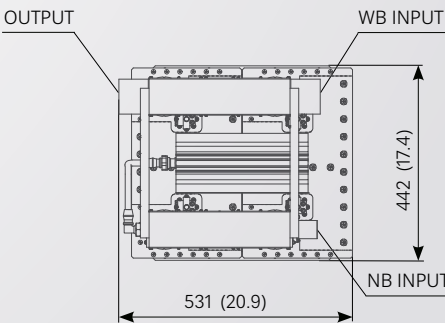
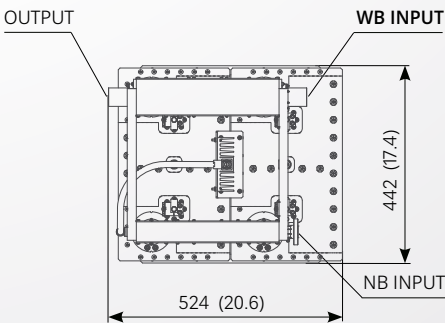
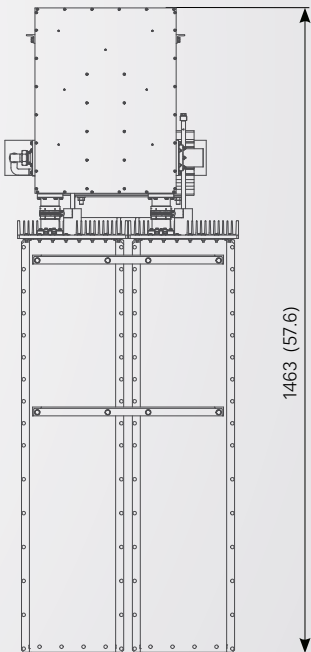
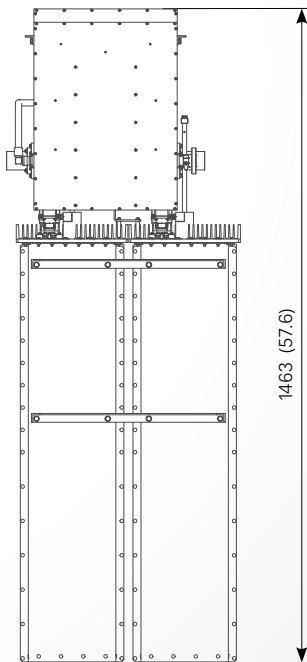
UC/FM/LB2-6

FM DIRECTIONAL FILTER TYPE COMBINER

MECHANICAL LAYOUT

UC/FM/LB2-6/A

UC/FM/LB2-6/C



All dimensions are in millimeters (inches)