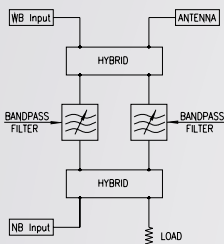


UC/FM/LB3-6

FM DIRECTIONAL FILTER TYPE COMBINER

FEATURES

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



ELECTRICAL AND MECHANICAL DATA

COMBINER TYPE	UC/FM/LB3-6/A			UC/FM/LB3-6/C		
FREQUENCY RANGE	87.5 ÷ 108 MHz			87.5 ÷ 108 MHz		
- 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	≥ 26 dB			≥ 26 dB		
- wideband input	≥ 26 dB			≥ 26 dB		
- narrowband input (at carrier fo)	≥ 30 dB			≥ 30 dB		
INSERTION LOSS (at carrier fo)	≤ 0.39 dB			≤ 0.39 dB		
NB input with freq. spacing ±1.6 MHz	≤ 0.39 dB			≤ 0.39 dB		
NB input with freq. spacing ±1.2 MHz	≤ 0.47 dB			≤ 0.47 dB		
NB input with freq. spacing ±0.8 MHz	≤ 0.65 dB			≤ 0.65 dB		
WB input	≤ 0.10 dB			≤ 0.10 dB		
WB input with freq. spacing ±0.8 MHz	≤ 0.20 dB			≤ 0.20 dB		
ISOLATION (at carrier fo)	≥ 32 dB			≥ 32 dB		
- Narrowband input to wideband input	≥ 32 dB			≥ 32 dB		
- Wideband input to narrowband input	≥ 50 dB			≥ 50 dB		
GROUP DELAY	≤ 40 ns at fo ±100 kHz			≤ 40 ns at fo ±100 kHz		
(With 0.8 MHz frequency spacing)	≤ 80 ns at fo ±150 kHz			≤ 80 ns at fo ±150 kHz		
MAX POWER RATINGS / freq. spacing (MHz)	±1.6	±1.2	±0.8	±1.6	±1.2	±0.8
- Narrowband input	6 kW	5 kW	3 kW	6 kW	5 kW	3 kW
- Wideband input	15 kW	15 kW	15 kW	25 kW	25 kW	25 kW
- Total output	15 kW	15 kW	15 kW	25 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	7/8" EIA			1-5/8" Unfl.		
- 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)	65 kg (143 lb)			75 kg (165 lb)		

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

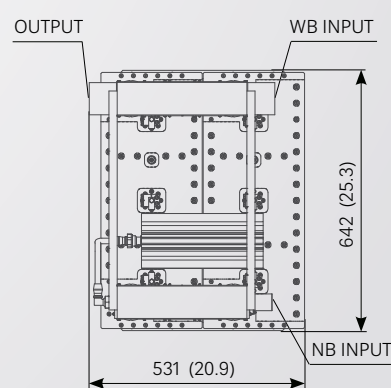
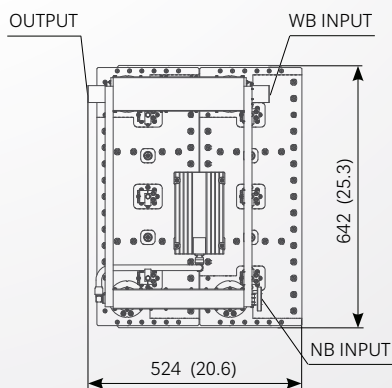
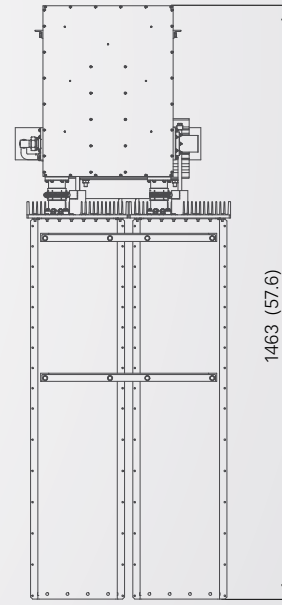
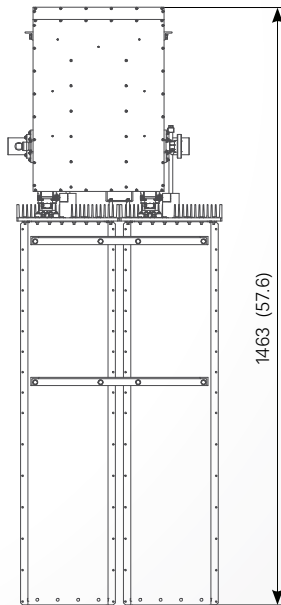
UC/FM/LB3-6

FM DIRECTIONAL FILTER TYPE COMBINER

MECHANICAL LAYOUT

UC/FM/LB3-6/A

UC/FM/LB3-6/C



All dimensions are in millimeters (inches)