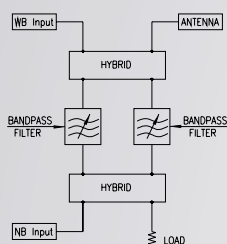


UC/FM/LB4-20/F

FM DIRECTIONAL FILTER TYPE COMBINER

FEATURES

- FM double bridge channel combiner
- 4 pole / 500 mm (19.7 in)
- adjustable selectivity
- temperature compensated



ELECTRICAL AND MECHANICAL DATA

COMBINER TYPE	UC/FM/LB4-20/B/F	UC/FM/LB4-20/C/F
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)	≥ 32 dB	≥ 32 dB
INSERTION LOSS (at carrier fo)		
NB input with freq. spacing ±0.6 MHz	≤ 0.45 dB	≤ 0.45 dB
WB input	≤ 0.10 dB	≤ 0.10 dB
WB input (0.6MHz freq. spacing)	≤ 0.20 dB	≤ 0.20 dB
ISOLATION (at carrier fo)		
- Narrowband input to wideband input	≥ 35 dB (typical)	≥ 35 dB (typical)
- Wideband input to narrowband input	≥ 55 dB	≥ 55 dB
GROUP DELAY		
(With 0.6 MHz frequency spacing)	≤ 50 ns at fo ±100 kHz ≤ 100 ns at fo ±150 kHz	≤ 50 ns at fo ±100 kHz ≤ 100 ns at fo ±150 kHz
MAX POWER RATINGS / freq. spacing (MHz)	±0.6	±0.6
- Narrowband input	20 kW	20 kW
- Wideband input	70 kW	120 kW
- Total output	70 kW	120 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	3-1/8" Unfl.	3-1/8" Unfl.
- Wideband input	4-1/2" Unfl.	6-1/8" Unfl.
OUTPUT PORT	4-1/2" Unfl.	6-1/8" Unfl.
WEIGHT (approx)	365 kg (805 lb)	390 kg (860 lb)

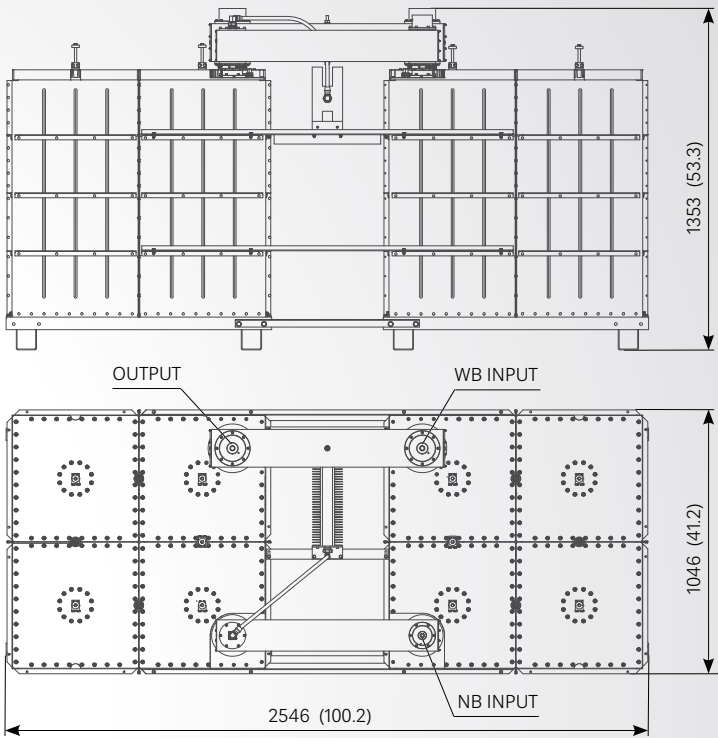
* referred to ambient temperature. Recommended: [AmbientTemp. + OverTemp.] ≤70°C (158°F)

UC/FM/LB4-20/F

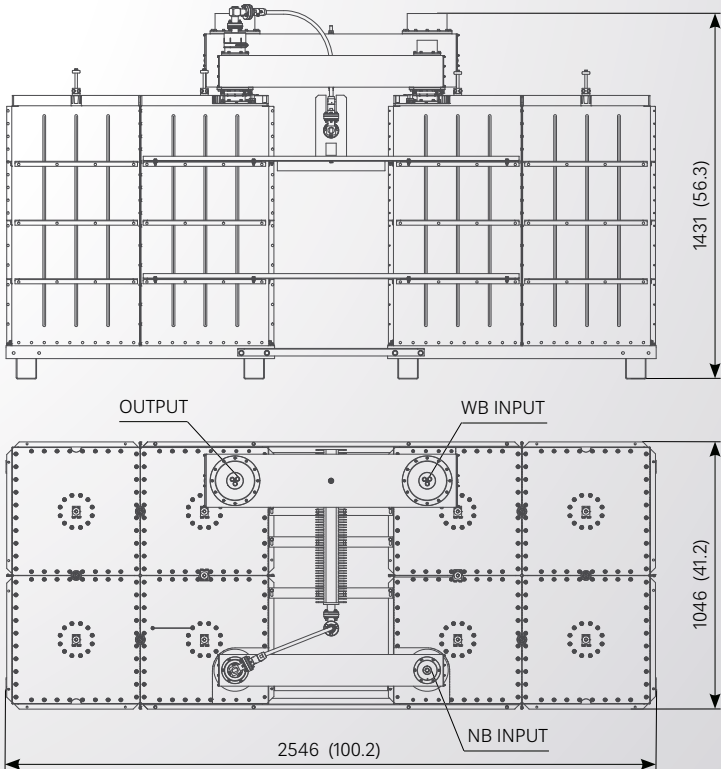
FM DIRECTIONAL FILTER TYPE COMBINER

MECHANICAL LAYOUT

UC/FM/LB4-20/B/F



UC/FM/LB4-20/C/F



All dimensions are in millimeters (inches)