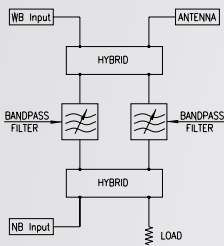


# UC/FM/LB4-6

## FM DIRECTIONAL FILTER TYPE COMBINER

### FEATURES

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



### ELECTRICAL AND MECHANICAL DATA

COMBINER TYPE	UC/FM/LB4-6/A			UC/FM/LB4-6/C		
<b>FREQUENCY RANGE</b>						
- wideband input	87.5 ÷ 108 MHz			87.5 ÷ 108 MHz		
- narrowband input	Tunable over entire FM range			Tunable over entire FM range		
<b>INPUTS AND OUTPUT IMPEDANCE</b>	50 ohm			50 ohm		
<b>RETURN LOSS</b>						
- wideband input	≥ 26 dB			≥ 26 dB		
- narrowband input (at carrier fo)	≥ 30 dB			≥ 30 dB		
<b>INSERTION LOSS (at carrier fo)</b>						
NB input with freq. spacing ±1.0 MHz	≤ 0.57 dB			≤ 0.57 dB		
NB input with freq. spacing ±0.8 MHz	≤ 0.66 dB			≤ 0.66 dB		
NB input with freq. spacing ±0.6 MHz	≤ 0.81 dB			≤ 0.81 dB		
WB input	≤ 0.10 dB			≤ 0.10 dB		
WB input with freq. spacing ±0.6 MHz	≤ 0.20 dB			≤ 0.20 dB		
<b>ISOLATION (at carrier fo)</b>						
- Narrowband input to wideband input	≥ 32 dB			≥ 32 dB		
- Wideband input to narrowband input	≥ 50 dB			≥ 50 dB		
<b>GROUP DELAY</b>	≤ 50 ns at fo ±100 kHz			≤ 50 ns at fo ±100 kHz		
(With 0.8 MHz frequency spacing)	≤ 100 ns at fo ±150 kHz			≤ 100 ns at fo ±150 kHz		
<b>MAX POWER RATINGS / freq. spacing (MHz)</b>	±1.0	±0.8	±0.6	±1.0	±0.8	±0.6
- 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
<b>OPERATING TEMPERATURE RANGE</b>	-10 to + 45°C (+14 to +113°F)			-10 to + 45°C (+14 to +113°F)		
<b>OVER TEMPERATURE*</b>	typical 30 K at max NB input power			typical 30 K at max NB input power		
<b>INPUT PORTS</b>						
- Narrowband input	7/8" EIA			1-5/8" Unfl.		
- Wideband input	1-5/8" Unfl.			3-1/8" Unfl.		
<b>OUTPUT PORT</b>	1-5/8" Unfl.			3-1/8" Unfl.		
<b>WEIGHT (approx)</b>	82 kg (181 lb)			90 kg (198 lb)		

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

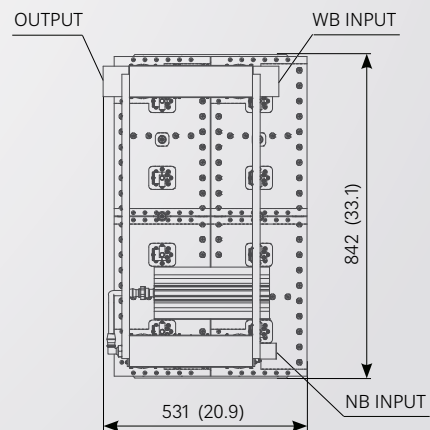
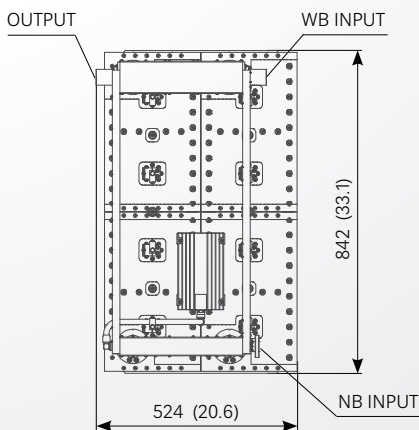
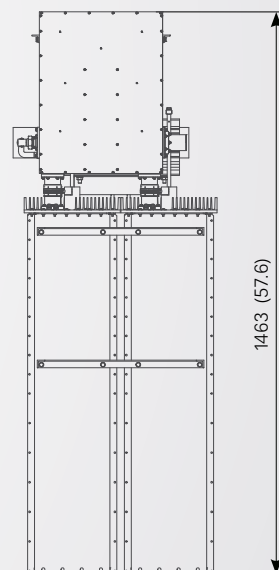
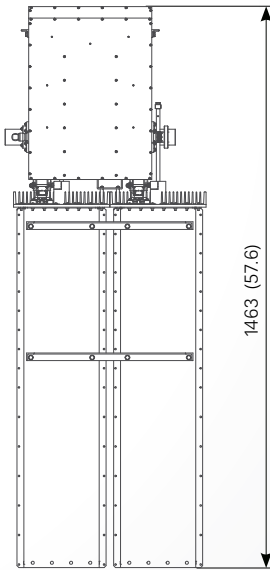
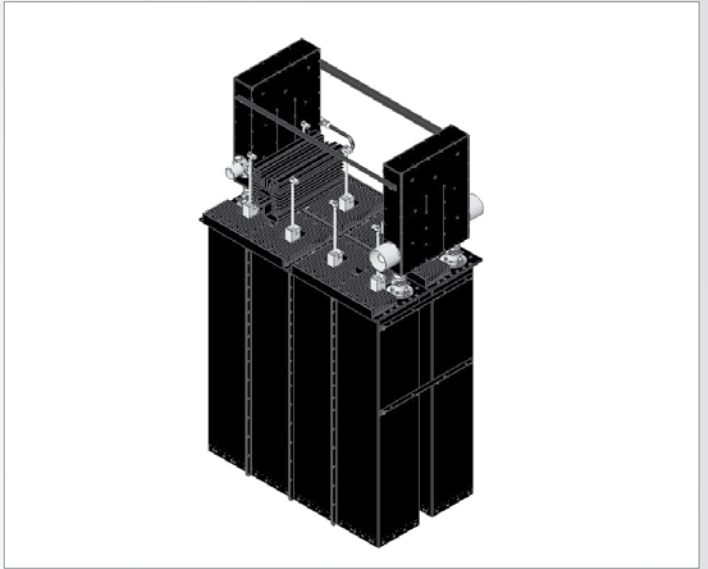
# UC/FM/LB4-6

## FM DIRECTIONAL FILTER TYPE COMBINER

### MECHANICAL LAYOUT

UC/FM/LB4-6/A

UC/FM/LB4-6/C



All dimensions are in millimeters (inches)