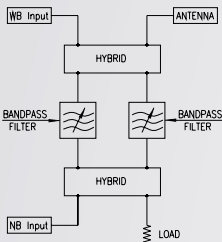


# UC/FM/LB2-1.2

## FM DIRECTIONAL FILTER TYPE COMBINER

### FEATURES

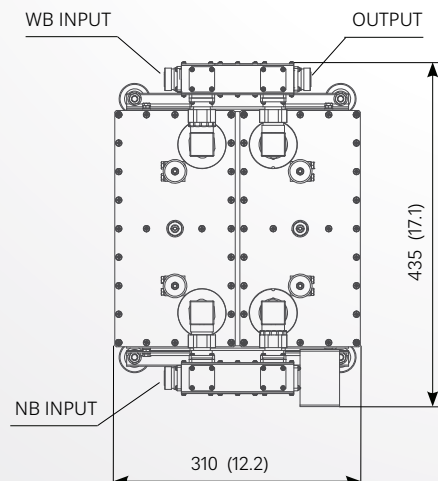
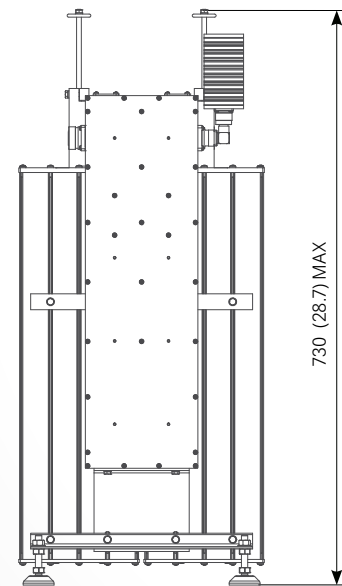
- FM double bridge channel combiner
- 2 pole / 150 mm (5.9 in)
- adjustable selectivity
- temperature compensated



### ELECTRICAL AND MECHANICAL DATA

|   |                                    |        |
|---|------------------------------------|--------|
| COMBINER TYPE                           | UC/FM/LB2-1.2                      |        |
| FREQUENCY RANGE                         | 87.5 ÷ 108 MHz                     |        |
| - wideband input                        | 87.5 ÷ 108 MHz                     |        |
| - narrowband input                      | Tunable over entire FM range       |        |
| INPUTS AND OUTPUT IMPEDANCE             | 50 ohm                             |        |
| RETURN LOSS                             |                                    |        |
| - wideband input                        | ≥ 26 dB                            |        |
| - narrowband input (at carrier fo)      | ≥ 28 dB                            |        |
| INSERTION LOSS (at carrier fo)          |                                    |        |
| NB input with freq. spacing ±2.0 MHz    | ≤ 0.58 dB                          |        |
| NB input with freq. spacing ±1.6 MHz    | ≤ 0.68 dB                          |        |
| WB input                                | ≤ 0.10 dB                          |        |
| ISOLATION (at carrier fo)               |                                    |        |
| - Narrowband input to wideband input    | ≥ 30 dB                            |        |
| - Wideband input to narrowband input    | ≥ 50 dB                            |        |
| GROUP DELAY                             | ≤ 25 ns at fo ±100 kHz             |        |
| (With 1.6 MHz frequency spacing)        | ≤ 50 ns at fo ±150 kHz             |        |
| MAX POWER RATINGS / freq. spacing (MHz) | ±2.0                               | ±1.6   |
| - Narrowband input                      | 1.2 kW                             | 1.2 kW |
| - Wideband input                        | 3 kW                               | 3 kW   |
| - Total output                          | 3 kW                               | 3 kW   |
| OPERATING TEMPERATURE RANGE             | -10 to +45°C (+14 to +113°F)       |        |
| OVER TEMPERATURE*                       | typical 30 K at max NB input power |        |
| INPUT PORTS                             |                                    |        |
| - Narrowband input                      | 7/16 F                             |        |
| - Wideband input                        | 7/16 F                             |        |
| OUTPUT PORT                             | 7/16 F                             |        |
| WEIGHT (approx)                         | 36 kg (79 lb)                      |        |

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



All dimensions are in millimeters (inches)