

- ◆ Integrates 700/850 MHz Bands
- ◆ Guaranteed Low PIM <-161 dBc
- ◆ 50 dB minimum Input Isolation
- ◆ 200 W/port Avg. Power
- ◆ Minimal RF Insertion Loss
- ◆ Rugged, High Reliability
- ◆ Outdoor IP67
- ◆ RoHS compliant



Microlab Model BK-75E is a Diplexer which allows combination and separation of the signals in the LTE band 698 - 803 MHz and the 824 - 894 cellular band. To minimize band inter-reaction, the inputs are well isolated and have minimal insertion loss over their respective frequency bands.

The Diplexer has been designed using passive, proprietary techniques which minimizes cost and size. At the same time it ensures minimal loss and very high reliability at input powers up to 200W per input.

#### Frequency Bands:

Port 1 - Port 3: 698 - 803 MHz  
Port 2 - Port 3: 824 - 894 MHz

Port Isolation:  $\geq 50$  dB

Return Loss:  $\geq 20$  dB

Insertion Loss:  $\leq 0.5$  dB

PIM, (Passive Intermod): <-161dBc (-118 dBm)  
Test with 2x tones at +43 dBm

Input Power Rating: 200W/input avg., 2 kW peak

Group Delay: 40ns max

DC Path: All Ports

Lightening Protection: 8/20  $\mu$ s waveform,  $\pm 10$ kA

Impedance: 50 $\Omega$  nominal

Connectors: 4.3-10 (f), Flange

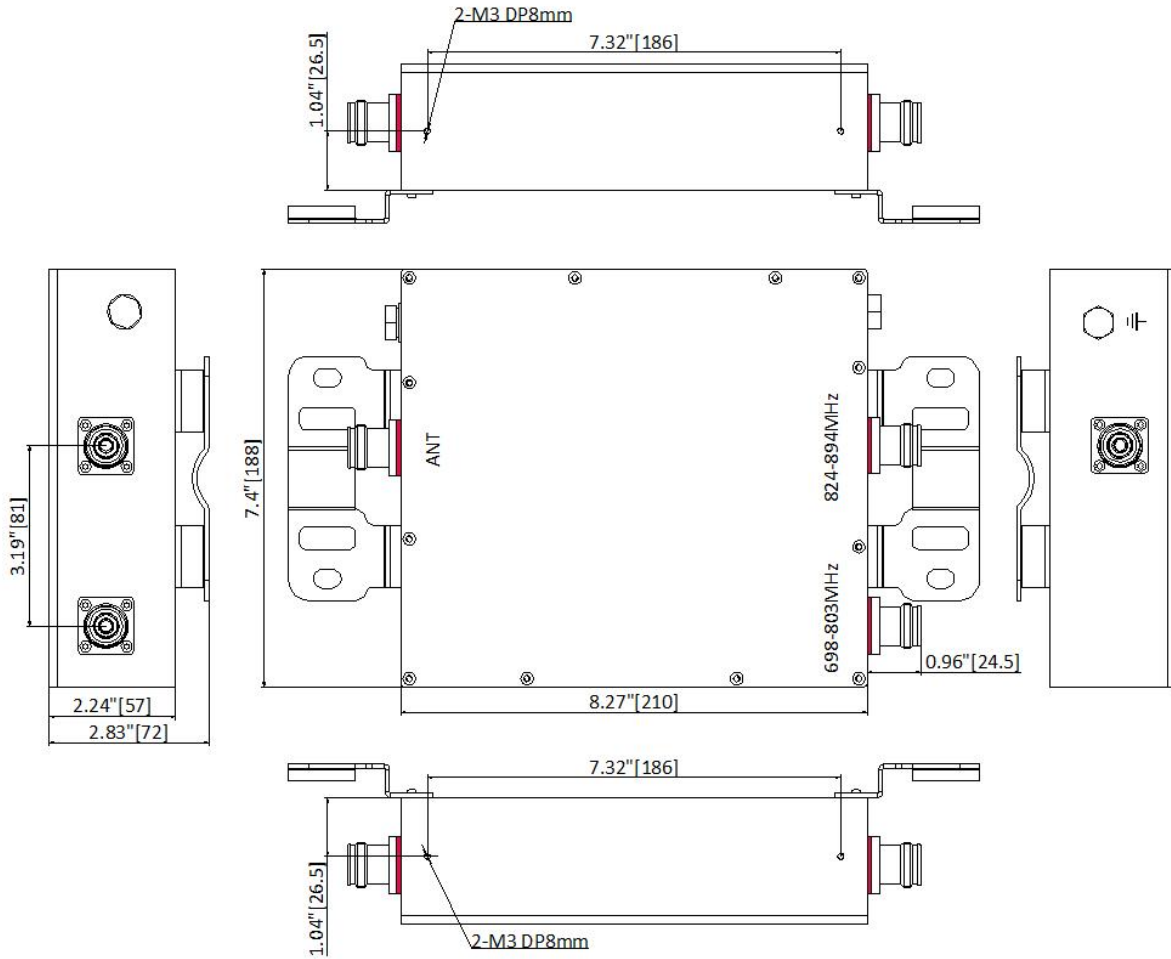
Housing Finish: Painted

Environment: -40 to +65 $^{\circ}$ C, IP67

Weight: 6.90 lbs [3.13 kg]

Dimension: 8.27x7.40x2.24 inches  
[210x188x57mm]

**BK-75E Outline**



Dimensions in inches [mm]