Pentaplexer Filter, BK-5001E

For combining 600+700/850/PCS/AWS/WCS
617-798/817-894/1850-2000/AWS1-3/2305-2360 MHz
Rev. A

- Combines 600+700, 850, PCS, AWS and WCS services
- 40 dB Input Isolation
- 100W per port
- IP67 Rated
- Minimal RF Insertion Loss
- Rugged, High Reliability
- Guaranteed Low PIM
- RoHS compliant Design
- 4.3-10 Connectors

Microlab BK-5001E is a Pentaplexer which allows combination and separation of the signals in 617-798 MHz, 817-894 MHz, 1850-2000 MHz, 1695-1780/2110-2200 MHz and 2305-2360 MHz commercial wireless bands. To minimize band inter-reaction, the inputs are well isolated and have minimal insertion loss over their respective frequency bands. Attention to mechanical design ensures guaranteed low passive intermodulation.

The filter has been designed using passive, proprietary techniques which minimizes cost and size. It allows efficient combining or division of the standard cellular bands for use in a base station, coaxial distributed in-building cellular network or DAS.

Frequency Bands:	
Port 1:	617- 798 MHz
Port 2:	817 - 894 MHz
Port 3:	2305 - 2360 MHz
Port 4:	1695 - 1780 MHz 2110 - 2200 MHz
Port 5:	1850 -2000 MHz
PIM:	<-161 dBc (-118 dBm) (2 tones of +43 dBm)
Return Loss:	20 dB min., All ports
Isolation:	40 dB min.
Insertion Loss:	0.4 dB max., All paths
Power Max. Rating:	100 W/input port
Group Delay:	15ns typ. All ports
Impedance:	50Ω nominal
Environment:	-25° - +65°C, IP67
Lightening Protection:	±5 kA, 8/20μs
Connectors:	4.3-10 (f), Flanged
Mounting:	Wall Mount
Protection Ground:	M6 screw
Housing Finish:	Painted
Dimensions:	9.17 x 8.90 x 2.17 inches [232.8 x 226.0 x 55.0 mm]
Weight, nom:	9.0 lbs (4.1 kg)

Note: Specifications are subject to change without prior notification.

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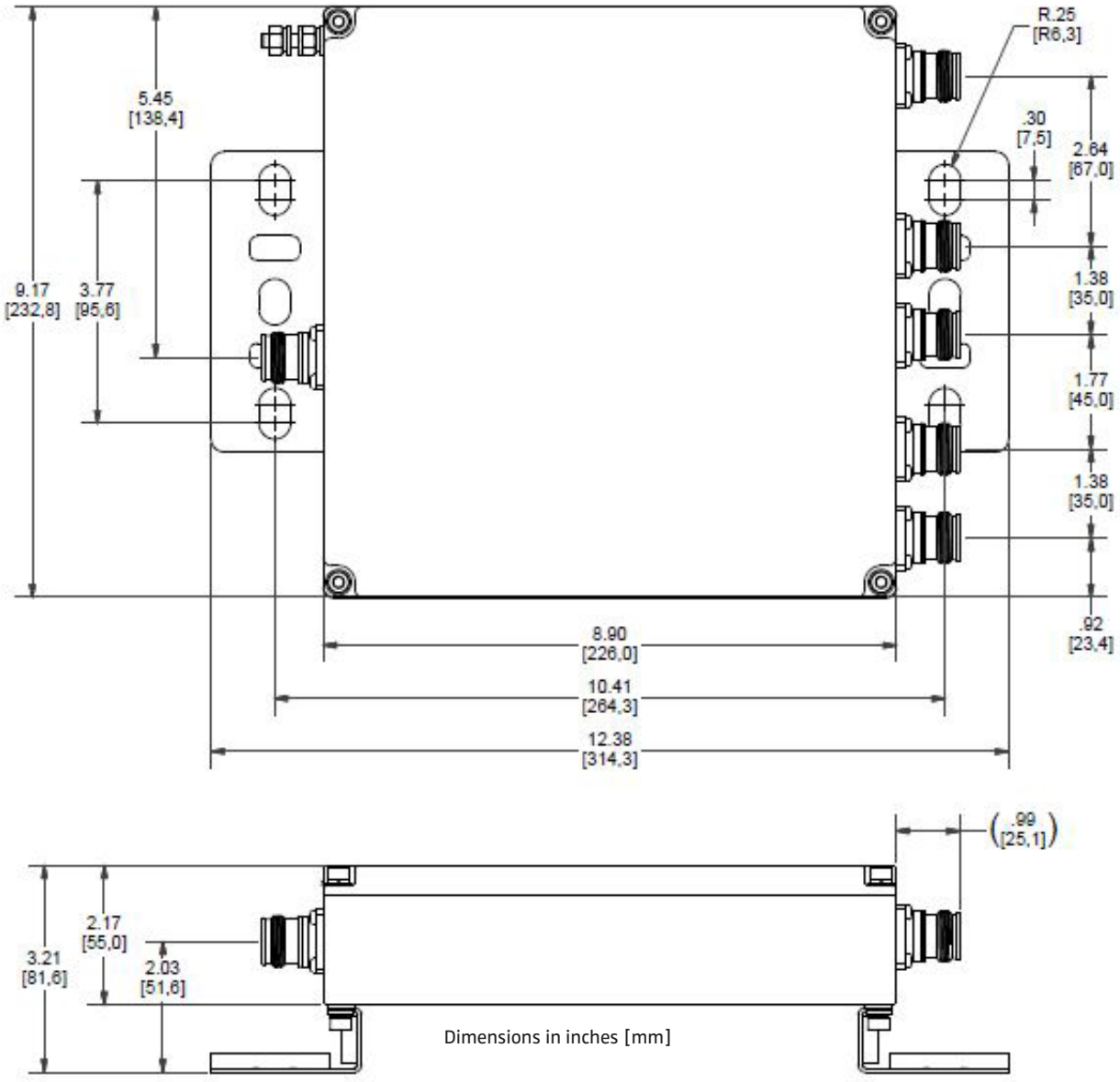
Outline BK-5001E



Dimensions in inches [mm]