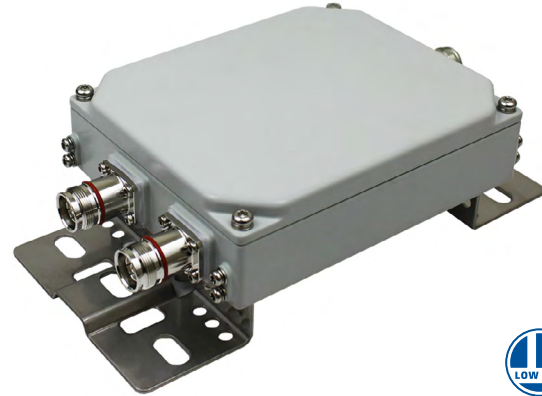


- ◆ Inject BRS Band41 at existing Small Cells & D-RAN sites
- ◆ 50 dB Input Isolation
- ◆ 250W/100W per port
- ◆ Guaranteed Low PIM
- ◆ Minimal RF Insertion Loss
- ◆ 4.3-10 Connectors
- ◆ IP67 Rated
- ◆ RoHS compliant



Model No.	Type	Weight lbs (kg)	Dimensions inches [mm]
BK-694E	Single	4.6 (2.1)	6.54 x 5.35 x 1.77 [166 x 136 x 45]
BK-694EW	Dual	9.3 (4.2)	6.54 x 5.35 x 3.82 [166 x 136 x 97]

Microlab BK-694E is a diplexer that enables injection and separation of the signals in 617-960 MHz, 1695-2360 MHz, and BRS band. It allows efficient combining or splitting in a compact form factor for use in a small cell or distributed RAN. The inputs are well isolated to minimize band inter-reaction and have minimal insertion loss over their respective frequency bands. Attention to mechanical design ensures a guaranteed low passive intermodulation. Dual mounted configuration for 2x2 MIMO applications is available as BK-694EW.

#### Frequency Bands:

Port 1: 617 -960 MHz

1695-2360 MHz

Port 2: 2496 - 2690 MHz

PIM: <-161 dBc (-118 dBm)

(Tested with 2x +43dBm tones @ ambient)

Return Loss: 20 dB min.

Isolation: 50 dB min.

Insertion Loss: 0.5 dB max.

Group Delay: 10 ns

DC Pass: All Ports

Power:

Port 1: 250 W avg.

Port 2: 100 W avg.

Impedance: 50Ω nom.

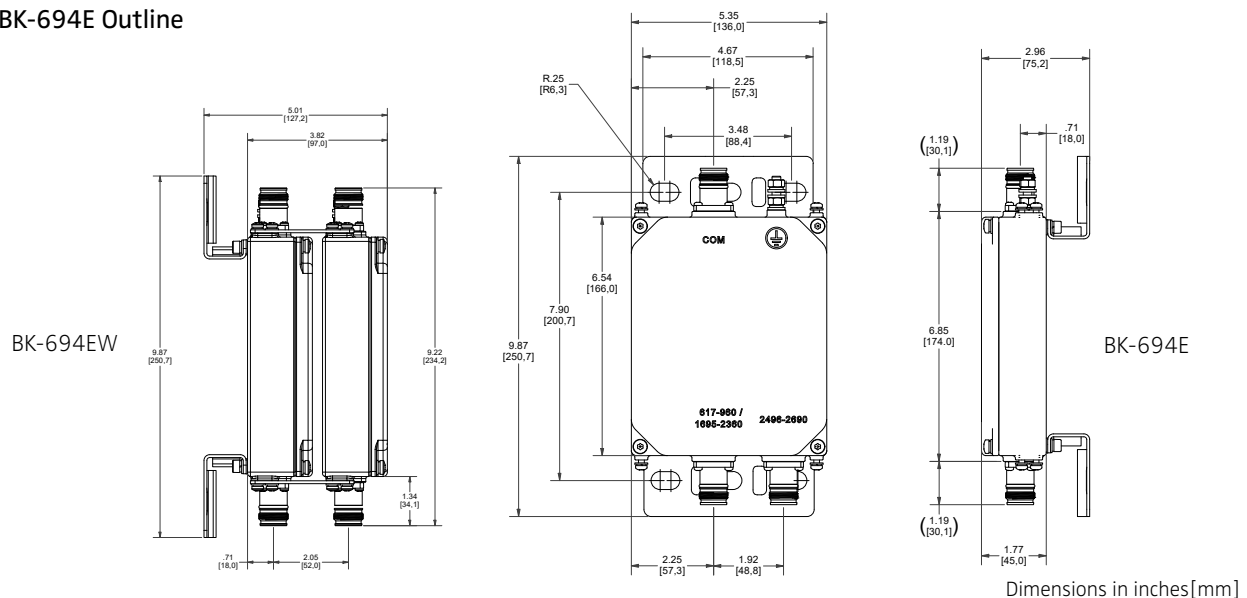
Environment: -40° to +65°C, IP67

Connectors: 4.3-10 (f), Flanged

Protection Ground: M6 screw

Housing Finish: Painted

#### BK-694E Outline



Note: Specifications are subject to change without prior notification.

10CT2021