

- ◆ Compact Dual Diplexer
- ◆ Integrates PCS with AWS/WCS
- ◆ 40 dB Input Isolation
- ◆ Guaranteed Low PIM
- ◆ Up to 100 W Power
- ◆ Minimal RF Insertion Loss
- ◆ Rugged, High Reliability
- ◆ RoHS compliant
- ◆ Includes Mounting Bracket



Model Number	Body Type	Connector Type	Power Avg.	Weight, nom. lb. (kg)
<b>BK-745E</b>	Dual	4.3-10 (f)	100W	4.7 (2.13)
<b>BK-745EW</b>	Quad	4.3-10 (f)	100W	9.5 (4.31)

Microlab BK-745 is a dual Diplexer which allows combination and separation of the signals in the PCS band 1850 - 1990 MHz with the AWS-WCS bands 1695 - 1780 MHz and 2110 - 2360 MHz. 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 100W per input.

Double unit mounting configuration for Quad Diplexer applications is available as Microlab Model BK-745EW.

## Frequency Bands:

Port 1/4 - COM1/2: 1695-1780 & 2110-2360 MHz

Port 2/3 - COM1/2: 1850 - 1990 MHz

Isolation: 40 dB min, In each band

Return Loss: 20 dB min

Insertion Loss: 0.35 dB max

PIM: -161 dBc (-118 dBm) typ  
-155 dBc (<-112 dBm) min  
(Test with 2 +43 dBm tones)

Group Delay: 13ns typ

DC Pass: All paths

Impedance: 50Ω nominal

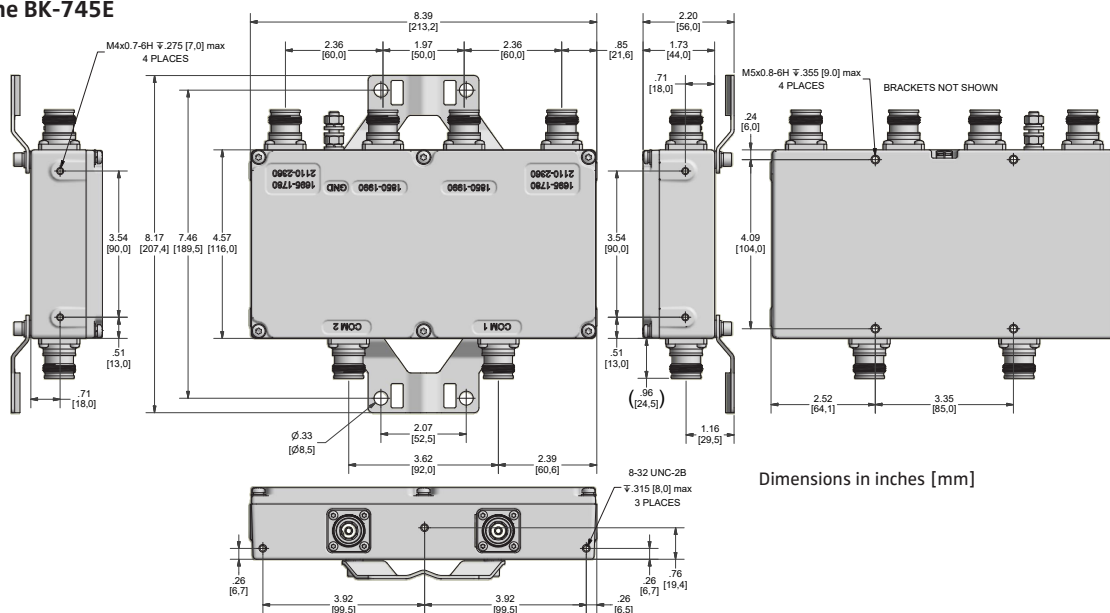
Environment: -40°C to +65°C, IP67

Ground Lug: M6 Screw

Finish: Connectors: Flanged Triplate

Housing: Painted

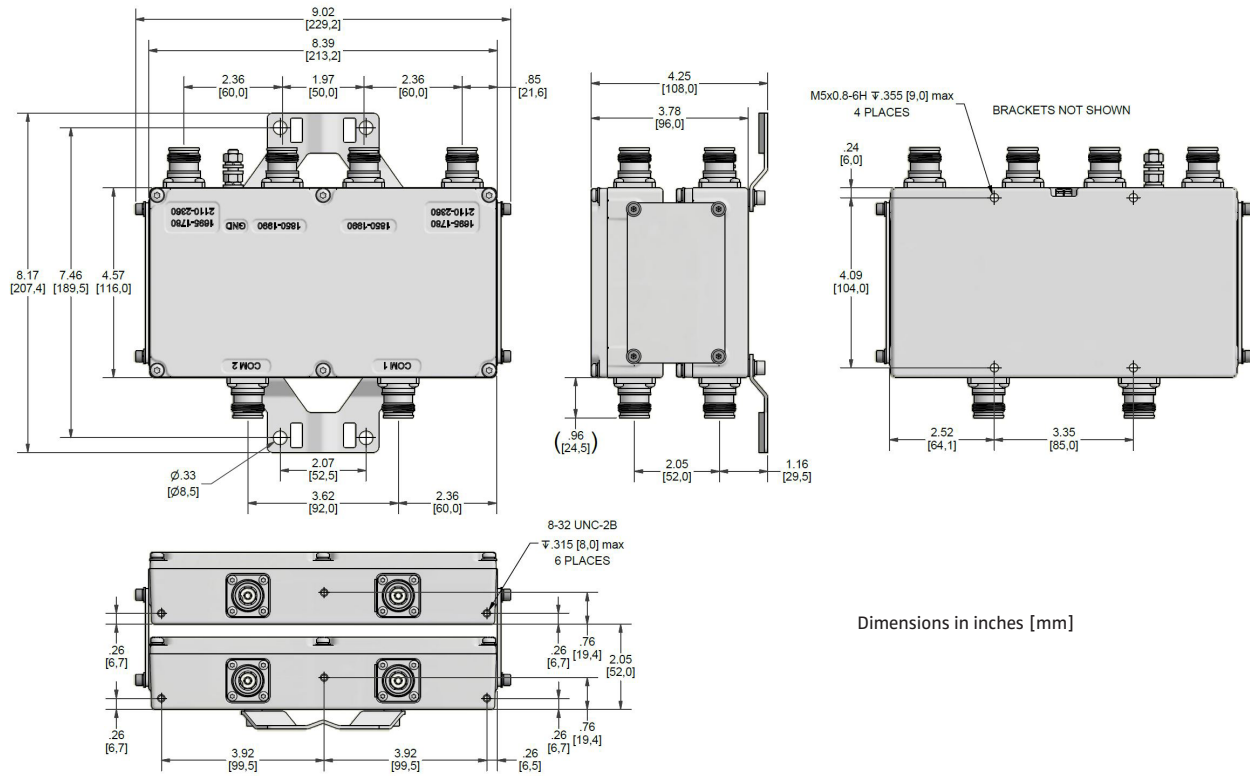
## Outline BK-745E



Note: Specifications are subject to change without prior notification.

30APR2019

## Outline BK-745EW



Note: Specifications are subject to change without prior notification.