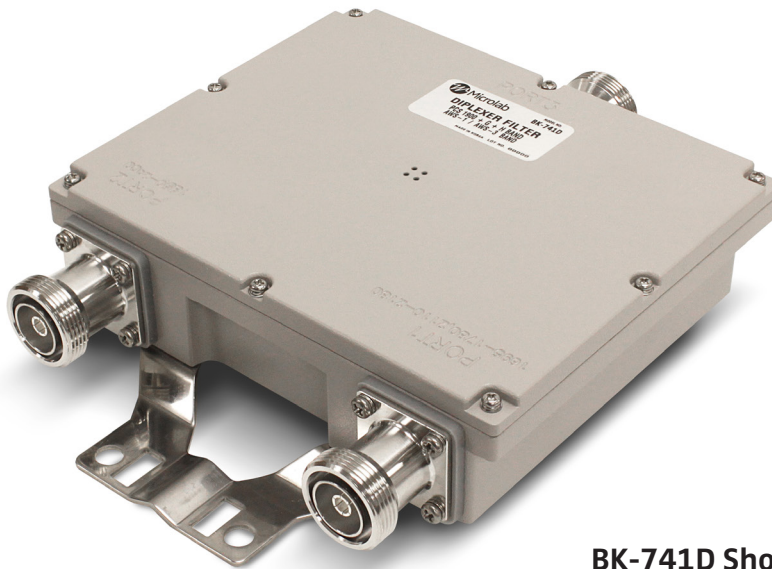


- ◆ Integrates AWS-1, AWS-3 & PCS/GSM Bands
- ◆ 50 dB Input Isolation
- ◆ Minimal RF Insertion Loss & Ripple
- ◆ Includes Mounting Bracket
- ◆ Low PIM Guaranteed
- ◆ Up to 250 W CW/Input Avg.
- ◆ Rugged, High Reliability,
- ◆ RoHS compliant



BK-741D Shown



Model Number	Assembly Type	Connector Type	Max Power per Input	Weight, nom. lb. (kg)
BK-741D	Single	7-16 long	250W	4.1 (1.9)
BK-741DW	Dual	7-16 long	250W	8.3 (3.8)
BK-741E	Single	4.3-10	250W	4.1 (1.9)
BK-741N	Single	N type	250W	4.1 (1.9)

Microlab BK-741 is a Diplexer which allow combination and separation of the signals in the AWS bands 1695 - 1780 MHz and 2110 - 2180 MHz with the PCS band 1850 - 2000 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 250W per input.

Mounting brackets are included.

Frequency Bands:

Port 1 - Port 3: 1695-1780 & 2110-2180 MHz

Port 2 - Port 3: 1850 - 2000 MHz

Phase Linearity: $\pm 3^\circ$ max. in any 4 MHz band

Group Delay: 10 ns max. in any 4 MHz band

Passband Ripple: <0.4 dB in any 4 MHz band

P1:P2 Isolation: >50 dB in band

Return Loss: >19 dB, all ports

Passband Loss: <0.3 dB

Intermod. Distortion: <-161 dBc (2 x +43dBm tones)

DC Path: All paths

Impedance: 50 Ω nominal

Ground Lug: M8 Screw

Environment: -40°C to +85°C, IP67

Lightning Protection: 8/20 μ s, 20kA

10/350 μ s, 3kA (port ANT)

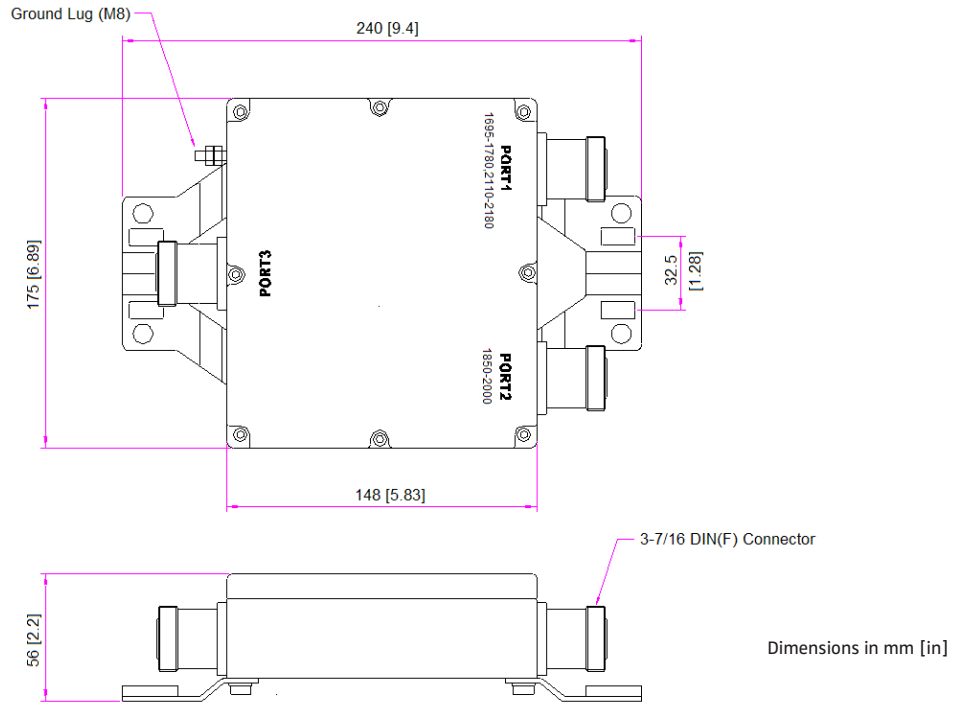
Finish: Connectors: N(f), 4.3-10 or 7-16 (f) triplate

Housing: Grey color epoxy coating

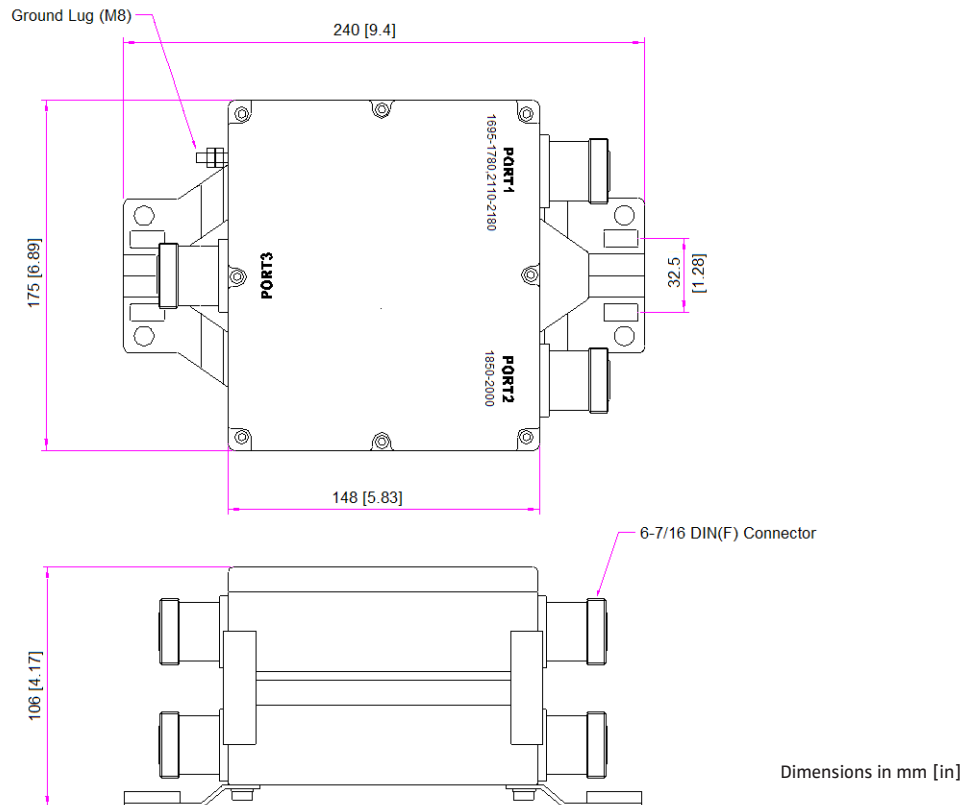
Note: Specifications are subject to change without prior notification.

22JUN2016

Outline BK-741D



Outline BK-741DW



Outline
BK-741N and BK-741E

