

- ◆ Combines PCS-AWS with 2.5/BRS
- ◆ Small Form Factor in Twin/Quad Units
- ◆ Guaranteed Low PIM
- ◆ Minimal RF Insertion Loss
- ◆ NEX10® Connectors
- ◆ IP67 Rated
- ◆ RoHS compliant



BK-2035T

Model No.	Type	Weight lbs (kg)	Dimensions inches [mm]
BK-2035T	Dual	1.46 (0.66)	6.49 x 2.76 x 1.02 [165 x 70 x 26]
BK-2035TW	Quad	2.92 (1.32)	6.49 x 2.76 x 2.05 [165 x 70 x 52]

Microlab BK-2035T is a diplexer that enables the combining or splitting of PCS-AWS and 2.5/BRS for 5G carrier aggregation in DAS & small cells in a 2x2 MIMO format. The second port allows for adding 2.5/BRS signal into existing or new networks along with PCS-AWS. The inputs are well isolated and have minimal insertion loss over their respective frequency bands to minimize band inter-reaction. Attention to mechanical design guarantees low Passive Intermodulation (PIM) for a prolonged period, and the connectors are spaced to be compatible with common protective boots for enhanced weatherproofing, as well as allowing for easy and precise installation with a torque wrench. Dual mounted configuration for 4x4 MIMO applications is available as BK-2035TW.

Frequency Bands:

Port 1: 1695 - 2200 MHz

Port 2: 2496 - 2690 MHz

Power: 80 W avg., 1kW pk

Insertion Loss: 0.3 dB typ., 0.35 dB max.

Return Loss: 20 dB min.

Isolation: 35 dB min.

PIM: <-155 dBc (-112 dBm)

(Test 2x +43dBm tones @ ambient)

Group Delay:

Port 1: 4.6 ns

Port 2: 5.7 ns

DC Pass: No DC Pass

Lightning Protection: +/- 5kA; 8/20 μs waveform

Impedance: 50Ω nom.

Environment: -40° to +65°C, IP67

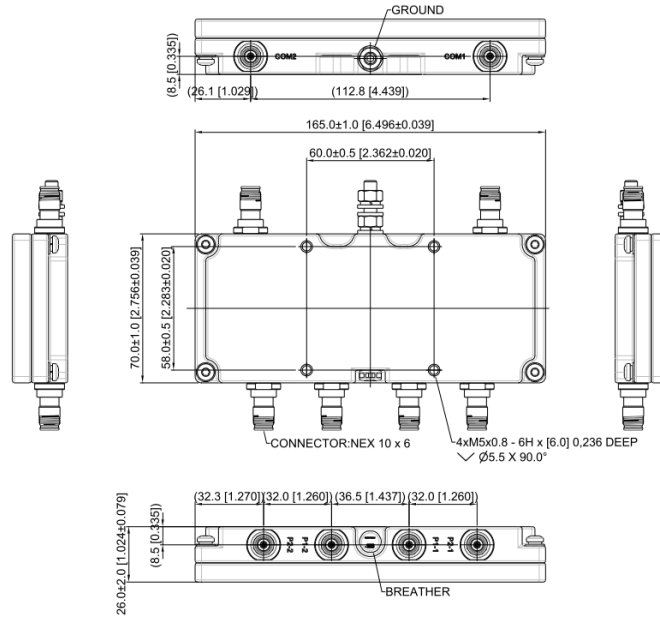
Connectors: NEX10® (f)

Boots Compliance: Up to 1 inch Diameter

Housing Finish: Gray Powder Coated

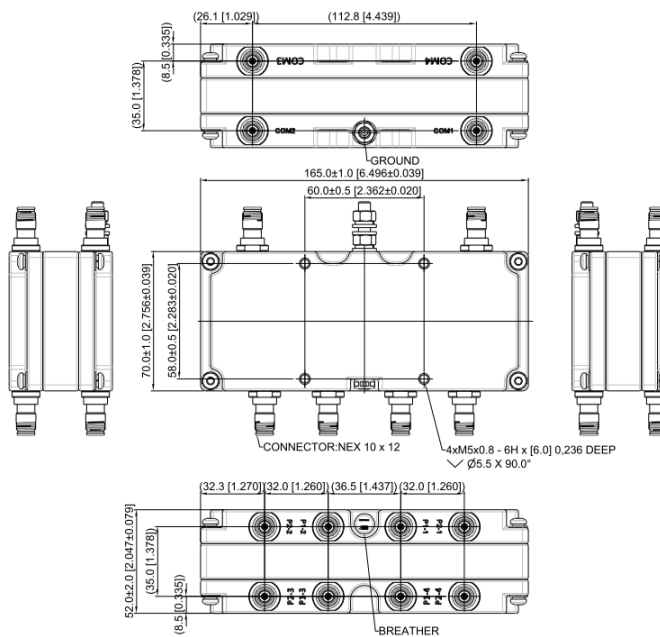
BK-2035T Outline

Dimensions in mm [inches]



BK-2035TW Outline

Dimensions in mm [inches]



Note: Specifications are subject to change without prior notification.