

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



Model No.	Connector Type	Type	Weight lbs (kg)	Dimensions inches [mm]
BK-3105T	NEX10®	Dual	3.9	4.89 x 5.32 x 2.55 [124 x 135 x 65]
BK-3105G	2.2-5.0	Dual	TBD	In Development

Microlab BK-3105 is a Triplexer that enables the combining or splitting of PCS/AWS with WCS, 2.5/BRS for 5G carrier aggregation in DAS & small cells in a 2x2 MIMO format. 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. The units are Dual mounted single diplexers allowing for 2x2 MIMO applications, in both NEX10® and 2.2-5.0.

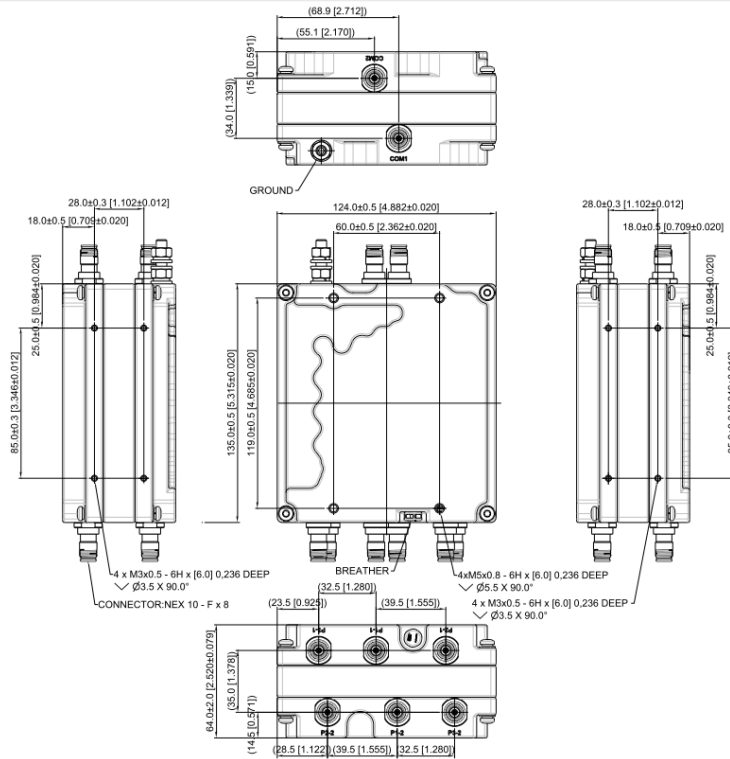
Frequency Bands:

Port 1: 1850 - 1995 MHz
 Port 2: 1695 - 1780 MHz
 2110 - 2200 MHz
 Port 3: 2305 - 2690 MHz

Power: 60 W avg., 1kW pk
 Insertion Loss: < 0.4 dB typ. (<0.5 dB max)
 Return Loss: 18 dB min.
 Isolation: 35 dB min.
 PIM: <-155 dBc (-112 dBm)
 (Test 2x +43dBm tones @ ambient)
 Group Delay: 3ns (P1), 15ns (P2), 7ns (P3)
 DC Pass: No DC Pass
 Lightning Protection: +/- 5kA; 8/20 μs waveform
 Impedance: 50Ω nom.
 Environment: -40° to +65°C, IP67
 Connectors: NEX10® (f) or 2.2-5.0 (f)
 Boots Compliance: Up to 1 inch diameter
 Housing Finish: Gray Powder Coated

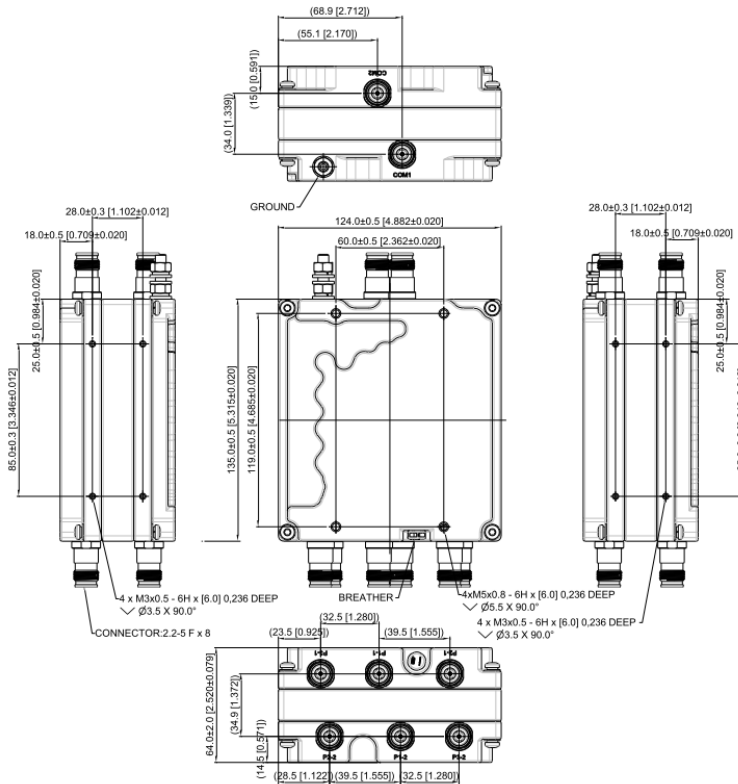
BK-3105T Outline

Dimensions in mm [inches]



BK-3105G Outline

Dimensions in mm [inches]



Note: Specifications are subject to change without prior notification.