Triplexer, BK-3104

1850-1995/1695-1780 & 2110-2200/2305-2690 &
3300-4200 & 5150-5925 MHz
NEX10®, 2.2-5
Rev. B

- Combines PCS, AWS with WCS, 2.5/BRS, or C-Band
- 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-3104T	NEX10®	Dual	3.9	4.89 x 5.32 x 2.55 [124 x 135 x 65]
BK-3104G	2.2-5.0	Dual	TBD	In Development

Microlab BK-3104 is a Triplexer that enables the combining or splitting of PCS/AWS with WCS, 2.5/BRS, or C-Band 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
	3300 - 4200 MHz
	5150 - 5925 MHz
Power:	60 W avg., 1kW pk
Insertion Loss:	< 0.4 dB typ. (<0.5 dB max)
Return Loss:	
18 dB min. (PCS, AWS, WCS, BRS/2.5, 3450-3980 MHz)	
16 dB min. (3300-3450, 3980-4200, 5150-5925 MHz)	
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

Note: Specifications are subject to change without prior notification.

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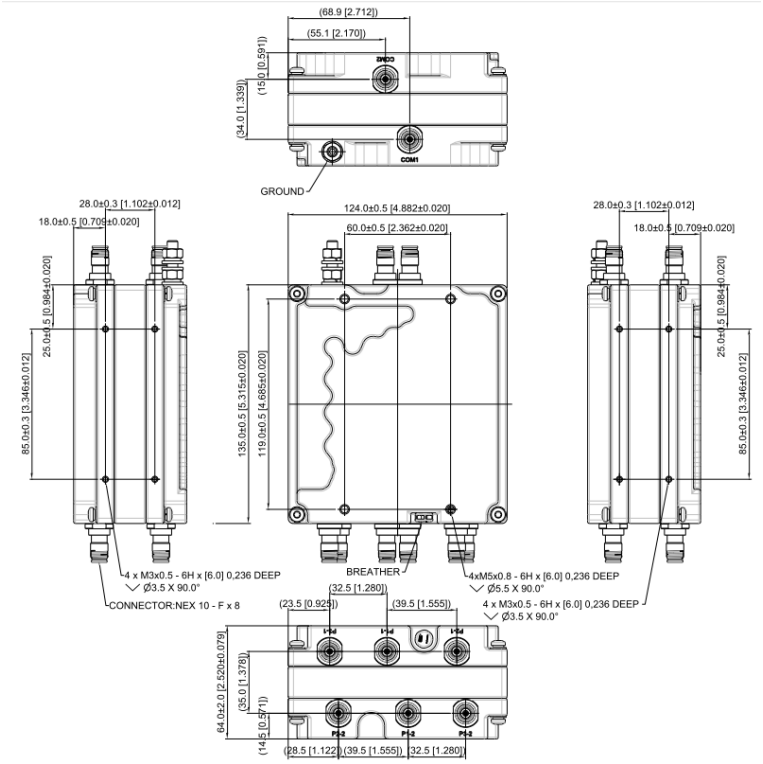
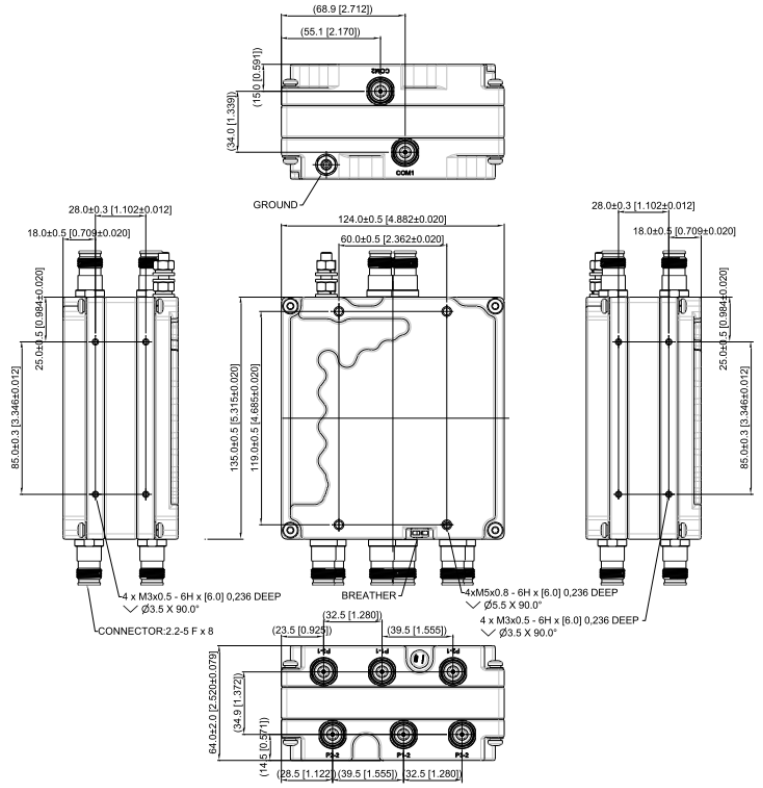
BK-3104T Outline

Dimensions in mm [inches]



BK-3104G Outline

Dimensions in mm [inches]



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