



Duplexer Filter for AWS-1 & AWS-3 Bands, 60W 1695-1780/2110-2180 MHz Rev. A

- Combines or Splits Tx and Rx Signals for US AWS Systems
- ♦ Guaranteed Low PIM
- High Isolation
- Low Insertion Loss
- Up to 60W power
- Models for Outdoor, IP67
- RoHS Compliant, High Reliability



AWS Duplexer BL-51N



Mode	el/Coni	nector
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N (f) 7-16 (f) 4.3-10 (f)

AWS Duplexer Filter BL-51N BL-51D BL-51E
Add 'P' to part # for Outdoor model, eg. BL-51NP

Microlab Duplexer, BL-51 series allows combination and separation of the Tx and Rx signals in the AWS-1 and AWS-3 bands used in North America.

Units use a suspended substrate design to provide hign isolation, low PIM and low insertion loss. Attention to mechanical design, ensures low loss, and high reliability.

Tx Passband: 2110-2180 MHz (Tx Port)
Rx Passband: 1695-1780 MHz (Rx Port)
Insertion Loss: 1.0 dB max, 0.5 dB typ.
Passband Ripple: 0.4 dB max, 0.2 dB typ.

Input Isolation: >50dB (between Tx/Rx bands)

Return Loss, all ports: 18 dB min, 20 dB typ.

DC Continuity: Between All Ports

PIM (Intermod): -161 dBc (-118 dBm)(measured in

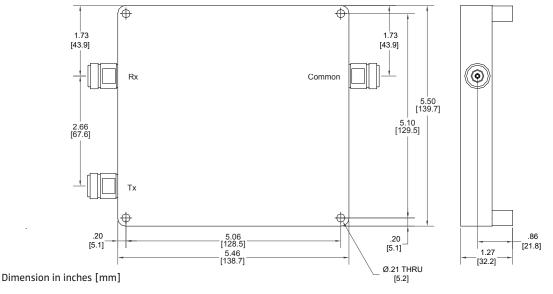
Rx using two +43 dBm tones in Tx)

Power Rating: 60W avg./input Impedance: 50Ω nominal Environment: -30°C to $+80^{\circ}\text{C}$, IP67

Finish: Connectors: Triplated

Housing Finish: RoHS passivated aluminum

Weight, nom: 1.7 lb., 0.8 kg



Note: Specifications are subject to change without prior notification.

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