



Duplexer for 1900 MHz PCS and AWS-1/AWS-3, 20W 1710-1915/1930-2180 MHz, 7/16 & 4.3-10 Rev. B

- ♦ Combines or Splits Tx and Rx Signals for 1900 MHz PCS and AWS-1/AWS-3 systems
- ♦ -161 dBc specified PIM
- High Isolation
- Low Insertion Loss
- Up to 20W power
- ♦ IP67, RoHS compliant
- ♦ 7-16 DIN or 4.3-10 connectors

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Model Number	Connectors Female	Weight. nom Ib (kg)
BL-42D	7/16 DIN	7.8 (3.5)
BL-42E	4.3-10	7.8 (3.5)

Microlab Duplexer Model BL-42D allows combination and separation of the Tx and Rx signals. This cavity filter operates in 1900 MHz PCS bands, including G block, along with 2100 MHz AWS-1 and AWS-3 bands. Units provide high isolation, and low insertion loss.

Attention to mechanical design, ensures low loss, and high reliability.

Rx Passband: 1710-1780/1850-1915 MHz

(Rx Port)

Tx Passband: 1930-1995/2110-2180 MHz

(Tx Port)

Insertion Loss: 1.0 dB typ., 1.2 dB max.

Return Loss, all ports: 19 dB min.

PIM (Intermod): -161 dBc (measured using two

+43 dBm tones)

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

Power/Input: 20 W avg., 1 kW peak

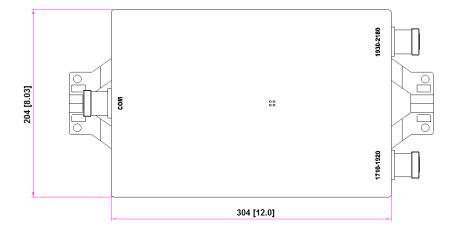
Impedance:  $50\Omega$  nominal

Environment: -40°C to +65°C, IP67

Lightning Protection:

Common Port 8/20µs, 20kA; 10/350µs, 3kA

Finish: Connectors: Triplate
Housing Finish: Gray Paint





Note: Specifications are subject to change without prior notification.

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