

- ◆ Combines W-LAN and Cellular on same Distributed Antenna System
- ◆ 50 dB Input Isolation
- ◆ 150 W Average Power
- ◆ Minimal RF Insertion Loss
- ◆ Rugged, High Reliability Design
- ◆ Low Passive IM., PIM
- ◆ RoHS compliant



Microlab Model BK-21 series Wireless Local Area Network (WLAN) Injector is a filter diplexer for indoor and outdoor use. It links W-LAN designed to 802.11(b) with a coaxial distributed inbuilding cellular network or DAS. This gives W-LAN the benefit of the same controlled coverage as the DAS, eliminating many W-LAN uncertainties.

To minimize the effects of the Injector to the DAS the inputs are well isolated and have minimal insertion loss over their respective frequency bands.

The W-LAN Injector has been designed using passive, proprietary techniques to ensure minimal loss and very high reliability. Model BK-21N uses N female connectors, while Model BK-21D uses 7-16 mm DIN connectors. Corner holes are provided for simple mounting to a surface or cable tray.(8/08)

Passband J1 to J3:	2,400 to 2,500 MHz
Passband J2 to J3:	below 80 to 2,170 MHz
J1 to J2 Isolation:	>50 dB in band
J1 & J2 VSWR:	1.3:1 max.
J1 Passband Loss:	0.6 ± 0.1 dB
J2 Passband Loss:	0.3 ± 0.1 dB
Power Rating:	J1: 8W max. J2: 150W avg., 3 kW pk.
Impedance:	50Ω nominal
Intermod. Distortion:	<-140 dBc, <-150 dBc typical (test with 2 +43dBm tones)
Environment*:	0° - +50°C, IP67
Finish: Connectors:	Silver plated or Triplate
Housing:	Passivated Aluminum
Weight, nominal:	2.0 lbs (0.91 kg)
*Broader temperature range available with relaxed VSWR	

BK-21D with 7-16 mm DIN connectors

BK-21N with N connectors.

