

# WLAN Injector / Filter Diplexer BK-J77E

**UHF, Cellular, UMTS In-Building/W-LAN 802.11(b)  
80 - 2170 / 2400 - 2500 MHz**

- 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
- Low Cost Design
- N or 7-16 mm DIN connectors

This Wireless Local Area Network (WLAN) Injector is a filter diplexer. It links W-LAN designed to 802.11(b) with a coaxial distributed antenna system 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 Diplexer has been designed using techniques that ensure minimal loss and very high reliability. Corner holes are provided for mounting to a surface or cable tray. [6/04]

<b>Passband J1 to J3:</b>	2,400 to 2,500 MHz
<b>Passband J2 to J3:</b>	below 80 to 2,170 MHz
<b>J1 to J2 Isolation:</b>	>50 dB in band
<b>J1 &amp; J2 VSWR:</b>	1.3:1 max.
<b>J1 Passband Loss:</b>	0.6 ± 0.1 dB
<b>J2 Passband Loss:</b>	0.3 ± 0.1 dB
<b>Power Rating:</b>	J1: 8W max. J2: 150W avg., 3 kW pk.
<b>Impedance:</b>	50Ω nominal
<b>Intermod. Distortion:</b>	<-140 dBc <small>(test with 2 +43dBm tones)</small>
<b>Environment:</b>	<-150 dBc typical -20° to +70°C, RH to 95%
<b>Applications:</b>	Indoor
<b>Finish:</b>	N Connectors: Silverplate
<b>Housing:</b>	Clear Iridite process
<b>Weight, nominal:</b>	2.0 lbs (0.91 kg)

