

- ◆ Combines W-LAN and Cellular on same Distributed Antenna System
- ◆ **Models for Outdoor Environments**
- ◆ Meets European Rail Standards EN50155:2007 (Class T3)
- ◆ 50 dB Input Isolation
- ◆ 150 W Average Power
- ◆ Minimal RF Insertion Loss
- ◆ Rugged, High Reliability Design
- ◆ Low Passive IM., PIM
- ◆ RoHS compliant



| Model Numbers | Connectors     | Weight, nom. |            |
|---------------|----------------|--------------|------------|
| Indoor        | Outdoor        | (female)     | lb (kg)    |
| <b>BK-21D</b> | <b>BK-21DP</b> | 7-16 mm      | 2.1 (0.95) |
| <b>BK-21N</b> | <b>BK-21NP</b> | N            | 2.0 (0.90) |
| <b>BK-21E</b> | <b>BK-21EP</b> | 4.3-10       | 2.0 (0.90) |

|          | Pass Band MHz | *DC Path to J3 | Pass Band Loss, dB | Power Rating Avg., peak |
|----------|---------------|----------------|--------------------|-------------------------|
| Input J1 | 2400-2500     | Isolated       | 0.6 ± 0.1          | 8W max,                 |
| Input J2 | 80-2170       | 2A max         | 0.3 ± 0.1          | 150W max, 3kW           |

\*DC path: DC to 20 MHz

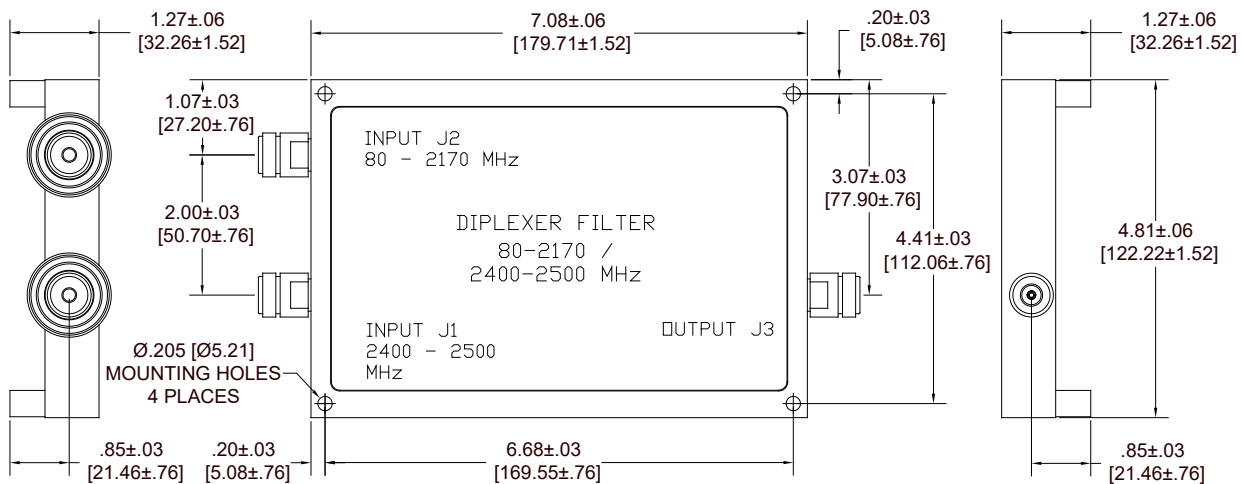
Microlab BK-21 series Wireless Local Area Network (WLAN) Injector is a filter diplexer for indoor and outdoor use. It links W-LAN designed to 802.11(b/g) with a coaxial distributed inbuilding cellular network or DAS. This gives W-LAN the benefit of the same controlled coverage as the DAS, eliminating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

To minimize the effects of the Injector to the DAS the inputs are well isolated and have minimal insertion loss.

The W-LAN Injector has been designed using passive, proprietary techniques to ensure minimal loss and high reliability. Corner holes are provided for simple mounting to a surface or cable tray. For outdoor environments use the model with the suffix 'P'.

Input J1-J2 Isolation: >50 dB  
Input J1 & J2 VSWR: <1.3:1  
Impedance: 50Ω nominal  
Intermod. (PIM): <-153 dBc  
2 x +43dBm tones

Environment: \*0 to +50°C  
Housing Finish:  
Indoor/IP64: Standard model  
Passivated Al.  
Outdoor/IP67: Painted  
Add P to Model No.  
Connectors: Triplate  
\*Broader range available with relaxed VSWR



Note: Specifications are subject to change without prior notification.

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