

- ◆ Injects Tetra or LMR/P25 to all other 694 - 2700 bands
- ◆ **Models for Outdoor Environments**
- ◆ High Input Isolation
- ◆ High Average Power
- ◆ Meets European Rail Standard EN50155:2001 (Class T1)
- ◆ Rugged, High Reliability, RoHS
- ◆ Low Passive IM., PIM
- ◆ Low Cost Design



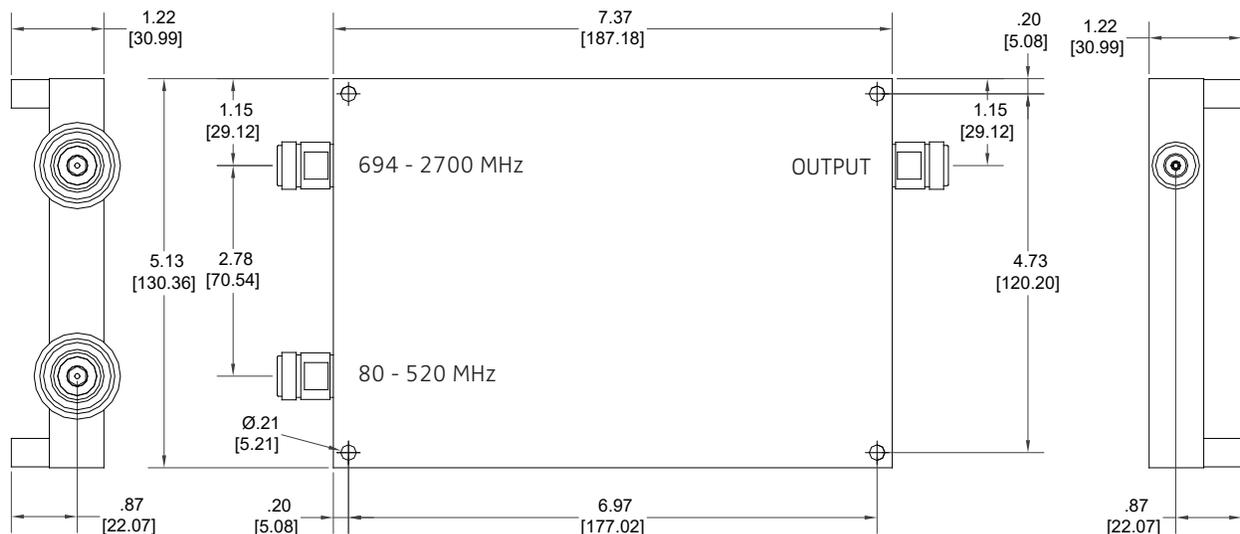
| Model Number                            | Connectors (female) | Weight, nom. lb (kg) |
|---|---------------------|----------------------|
| <b>BK-24D</b>                           | 7-16 mm             | 2.2 (1.0)            |
| <b>BK-24N</b>                           | N                   | 1.9 (0.8)            |
| <b>BK-24E</b>                           | 4.3-10              | 1.9 (0.8)            |
| Add 'P' to Model Number for Outdoor Use |                     |                      |

|          | Pass Bands, MHz | Input Isolation | Pass Band Loss | Power Rating Avg, peak |
|----------|-----------------|-----------------|----------------|------------------------|
| Input P1 | 80 - 520        | >50 dB          | <0.3 dB        | 50W., 3 kW             |
|          | 694 - 800       | >40 dB          |                |                        |
| Input P2 | 800 - 2500      | >50 dB          | <0.5 dB        | 120W., 3 kW            |
|          | 2500 - 2700     | >30 dB          |                |                        |

Input Return Loss: >16 dB, >18 dB typical  
except >13 dB, 960-1500 MHz  
Impedance: 50Ω nominal  
Intermod. (PIM): -161 dBc  
2 x +43dBm tones  
Environment: -35 to +65°C  
Housing Finish:  
Indoor/IP64: Standard model  
Passivated Al.  
Outdoor/IP67: Painted  
Add P to Model No.  
Connectors: Triplate

Microlab Model BK-24 series is a Diplexer which allows combination and separation of signals in the 80 - 520 MHz and 694 - 2700 MHz wireless bands. To minimize band inter-reaction, the inputs are well isolated and have minimal insertion loss over their respective frequency bands. The Diplexer is designed using passive, proprietary techniques for low loss, low PIM and high reliability

For use in outdoor environments add the suffix 'P' to Model No. (e.g. BK-24NP).



Note: Specifications are subject to change without prior notification.

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