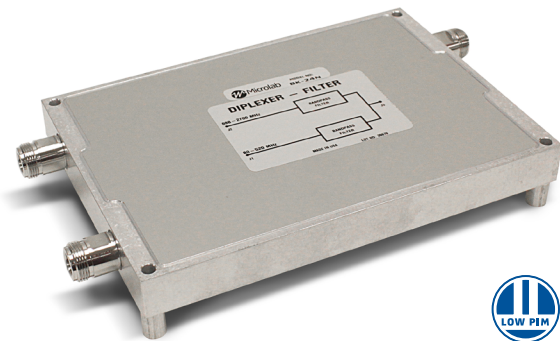


- ◆ Inject UHF, TETRA or LMR at existing network sites
- ◆ Guaranteed Low PIM
- ◆ Meets European Rail Standard EN50155:2001 (Class T1)
- ◆ High Input Isolation
- ◆ 100W/120W Power Rating
- ◆ 4.3-10 & N-type Connectors
- ◆ RoHS Compliant



Microlab BK-24 series diplexer 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-24EP).

PIM: -161 dbc (-118 dBm) min.  
(Test with 2x 1900MHz, +43dBm tones @ ambient)

Input Return Loss: 17 dB typ., 16.5 dB max.  
12.5 dB max. @ 960-1500 MHz

DC Pass: 3A max., Port P1 only

Impedance: 50 Ω nom.

Environment: -35 to +65°C, IP67

Housing Finish: Passivated Aluminum

Outdoor: Painted (Add P to Model No)

Connectors: Female Triplate

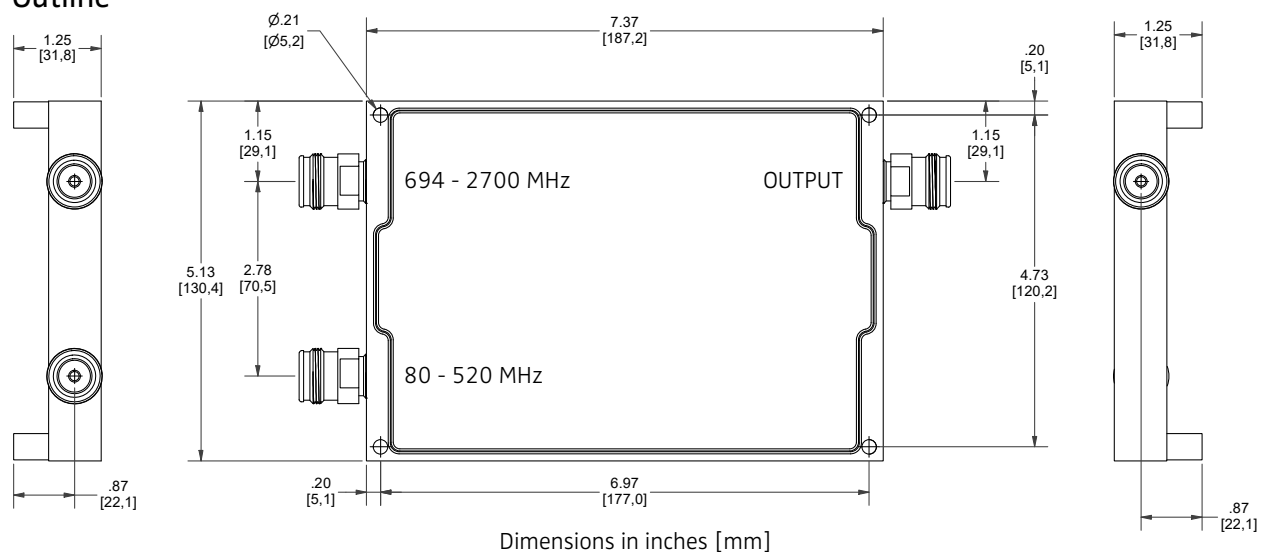
Dimensions: 7.37 x 5.13 x 1.25 in  
[187.2 x 130.4 x 31.8 mm]

Input Port	Frequency MHz	Input Isolation, dB	Insertion Loss, dB	Power Rating
P1	80-520	>50	<0.3	100 W avg 3 kW peak
P2	694-800	>40	<0.5	120 W avg 3 kW peak
	800-2500	>50		
	2500-2700	>30		

Model no.	Connectors	Weight lb (kg)
<b>BK-24E</b>	4.3-10	2.2 (1.0)
<b>BK-24N</b>	N-type	2.1 (0.95)

Add 'P' to Model Number for Outdoor Use

### Outline



Note: Specifications are subject to change without prior notification.

17NOV2021