

- ◆ Combiner for Feeder Sharing
- ◆ High Input Isolation
- ◆ Minimal RF Insertion Loss
- ◆ 40/10 W Avg Port Input Power Rating
- ◆ Rugged, High Reliability
- ◆ Low Passive IM, PIM
- ◆ Low Cost, RoHS Design



Microlab Model BK-30 series is a three input Triplexer which allows combination and separation of the signals in each wireless band. To minimize band inter-reaction, the inputs are well isolated and have minimal insertion loss over their respective frequency bands.

The Triplexer has been designed using passive, proprietary techniques which minimizes cost and size. Through holes are provided for simple mounting to a surface or cable tray using N connectors. (12/14)

Input Isolation:	>50 dB in band except >45 dB @ 2.4-2.5 GHz
Impedance:	50Ω nominal
Intermod. (PIM):	<-150 dBc (with 2 x +40dBm)
Environment:	0 to +50°C, IP64, (IP67 to order)
Housing:	Passivated Aluminum
Connectors:	N(f) Trimetal
Weight, nom:	32 oz (0.90 kg)

Frequency, MHz	Band	Port	Passband Loss	Input Return Loss	Power/Input	DC Path
380 to 2170 MHz	Tetra-Cellular	2	1.3 dB, typ <1 dB	>12 dB	40W avg., 3 kW pk	1A max.
2400 to 2690 MHz	Wifi (b,g & n)	1	1.3 dB, typ <1 dB	>12 dB	10W avg., 3 kW pk	Isolated
3300 to 5825 MHz	WiMAX & WiFi (a)	3	1.3 dB, typ <1 dB	>12 dB	10W avg., 3 kW pk	Isolated

