

Preliminary Specifications

- ◆ Combines WiFi & WiMAX to other DAS services
- ◆ 35 dB Input Isolation
- ◆ 20W Through Power
- ◆ Minimal RF Insertion Loss
- ◆ Rugged, High Reliability
- ◆ Low Passive IM., PIM
- ◆ Low Cost Design
- ◆ N & SMA connectors



The BK-91N Quadraplexer has been designed using passive, proprietary techniques to ensure minimal loss and very high reliability.

BK-91N allows efficient combining of the standard cellular services to WiFi services at the standard WiFi standards of 802.11 (a), (b), (g) and (n) at 2.4 GHz and 5.8 GHz together with WiMAX at 4.9 GHz. It is suitable for use in a coaxial distributed in-building cellular network or DAS.

A simple bracket and tapped holes are provided for simple mounting to a surface or cable tray. The unit is available for outdoor applications. (09/13)

Input isolation:	>35 dB
Impedance:	50Ω nominal
Main Line PIM:	<-130 dBc (tested 2 x +40dBm)
Environment:	0° - +55°C, IP64 (IP67 optional)
Housing:	Passivated Aluminum
Main Line Connectors:	N (f) triplate
Injection Connectors:	SMA (f) stainless steel
Weight, nom:	40 oz (1.14 kg)

Input	Frequency Band, MHz	Port	Passband Loss to J5, dB	Input VSWR	Power/ Input	DC Path
Main Line	698 - 2,170 & 2,600 - 2,700	J1	<1.0, typ 0.8 <2.0, typ 1.0	<1.4:1 1.6:1 typ.	20W avg., 3 kW pk	1A max.
WiFi 2.4	2,401 - 2,473	J2	<3.0, typ 2.5	1.6:1 typ.	5W avg., 3 kW pk	Isolated
WiMAX 4.9	4,940 - 4,990	J3	<2.0, typ 1.5	1.6:1 typ.	5W avg., 3 kW pk	Isolated
WiFi 5.8	5,725 - 5,825	J4	<2.5, typ 2.0	1.6:1 typ.	5W avg., 3 kW pk	Isolated

