

\$ Saver Product Line

- ◆ Integrates AWS-1 & -3 with PCS 1900 Bands
- ◆ N Type Connectors
- ◆ 75 dB Input Isolation
- ◆ Up to 500 W CW/Input Avg.
- ◆ Minimal RF Insertion Loss & Ripple
- ◆ Rugged, High Reliability, IP67
- ◆ RoHS compliant



Model Number	Connectors	Input Power Avg. Peak	Weight, nom. lb. (kg)
BK-721N	N (f)	500W 3kW	4.94 (2.24)

Microlab BK-721 series are Diplexers which allow combination and separation of the signals in the AWS-1 and AWS-3 bands 1695 - 1780 MHz and 2110 - 2180 MHz with the PCS band 1850 - 2000 MHz. To minimize band inter-reaction, the inputs are well isolated and have minimal insertion loss over their respective frequency bands.

The Diplexer has been designed using passive, proprietary techniques which minimizes cost and size. At the same time it ensures minimal loss and very high reliability at input powers up to 500W per input.

Frequency Bands:	
Port 1 - Port 3:	1695-1780 & 2110-2180 MHz
Port 2 - Port 3:	1850 - 2000 MHz
Phase Linearity:	±3° max. in any 4 MHz band
Group Delay Variation:	10 ns max. in any 4 MHz band
Passband Ripple:	<0.4 dB in any 4 MHz band
P1:P2 Isolation:	>75 dB in band
VSWR, all ports:	<1.25:1
Passband Loss:	<0.35 dB
Intermod. Distortion:	<-154 dBc, <-160 dBc typ. (test with 2 +43dBm tones)
Impedance:	50Ω nominal
Environment:	-40°C to +85°C, IP67
Finish: Connectors:	Triplate
Housing:	Paint over RoHS compliant Al

Microlab Model BK-721N
