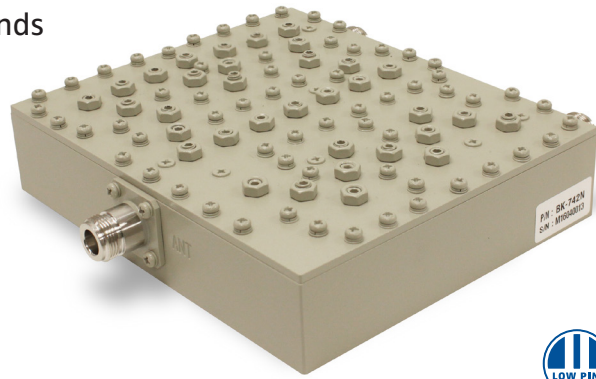


\$ Saver Product Line

- ◆ Integrates AWS-1, AWS-3 & PCS/GSM Bands
- ◆ 50 dB Input Isolation
- ◆ Minimal RF Insertion Loss & Ripple
- ◆ Includes Mounting Bracket
- ◆ Low PIM Guaranteed
- ◆ Up to 250 W CW/Input Avg.
- ◆ Rugged, High Reliability
- ◆ RoHS compliant



Model Number	Connector Type	Max Power per Input	Weight, nom. lb. (kg)
BK-742N	N(f)	250W	2.5 (1.1)
BK-742D*	7-16(f)	250W	2.5 (1.1)
BK-742E*	4.3-10(f)	250W	2.5 (1.1)
*Models in development			

Microlab BK-742N is a Diplexer which allow combination and separation of the signals in the AWS 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 250W 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:	10 ns max. in any 4 MHz band
Passband Ripple:	<0.4 dB in any 4 MHz band
P1:P2 Isolation:	>50 dB in band
VSWR, all ports:	<1.25:1
Passband Loss:	<0.3 dB
Intermod. Distortion:	-160 dBc typ. (2 x +43dBm tones)
DC Path:	No
Impedance:	50Ω nominal
Environment:	-40°C to +85°C
Lightning Protection:	8/20μs. 20kA 10/350μs, 3kA (port ANT)
Finish:	Connectors: N(f) triplate Housing: Grey color epoxy coating

Note: Specifications are subject to change without prior notification.

06MAY2016

Outline BK-742N
