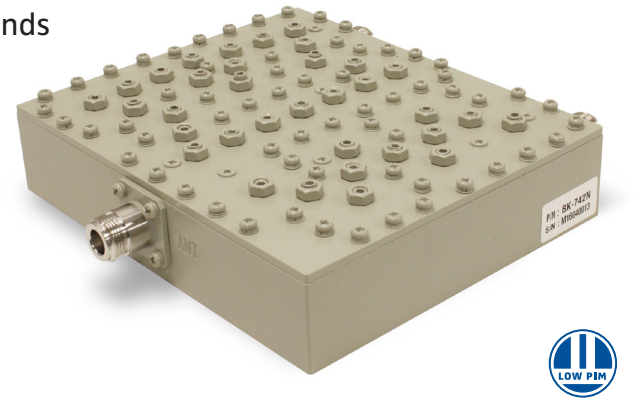
AWS/PCS Diplexer Filter, BK-742

PCS 1900 +G +H Band and AWS-1 + AWS-3 Band Diplexer
1850 - 2000/1695 - 1780 & 2110 - 2180 MHz
Rev. A

$ 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
Return Loss:		>19 dB, all ports
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.

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Outline BK-742N