AWS/PCS Diplexer Filter, BK-72 series

PCS 1900 +G+H Band and AWS 1700/2100 Band Diplexer
1850 - 2000/1710 - 1755 & 2110 - 2155 MHz
Rev. B

$ Saver Product Line

- Integrates AWS & PCS/GSM1900 Bands
- 75 dB Input Isolation
- Minimal RF Insertion Loss & Ripple
- Low Cost Design
- Low PIM Guaranteed
- 500 W/port Avg. Power
- Rugged, High Reliability, IP67
- RoHS compliant

Microlab Model BK-72N

Model Number	Connectors	Input Power Avg.	Peak	Weight, nom. lb. (kg)
BK-72D	7-16 (f)	500W	3kW	9.9 (4.5)
BK-72N	N (f)	500W	3kW	9.3 (4.2)

Microlab BK-72 series are Diplexers which allow combination and separation of the signals in the AWS bands 1710 - 1755 MHz and 2110 - 2155 MHz with the PCS band 1850 - 1990 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.

DC pass through connections may be added to the design as required. (03/14)

Frequency Bands:	
Port 1 - Port 3:	1710-1755 & 2110-2155 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:	<0.3 dB
Intermod. Distortion:	<-150 dBc, <-160 dBc typ. (test with 2 +43dBm tones)
DC Path:	optional
Impedance:	50Ω nominal
Environment:	-40°C to +85°C, IP67
Finish: Connectors:	N(f) or 7-16 (f) triplate
Housing:	Paint over RoHS compliant Al

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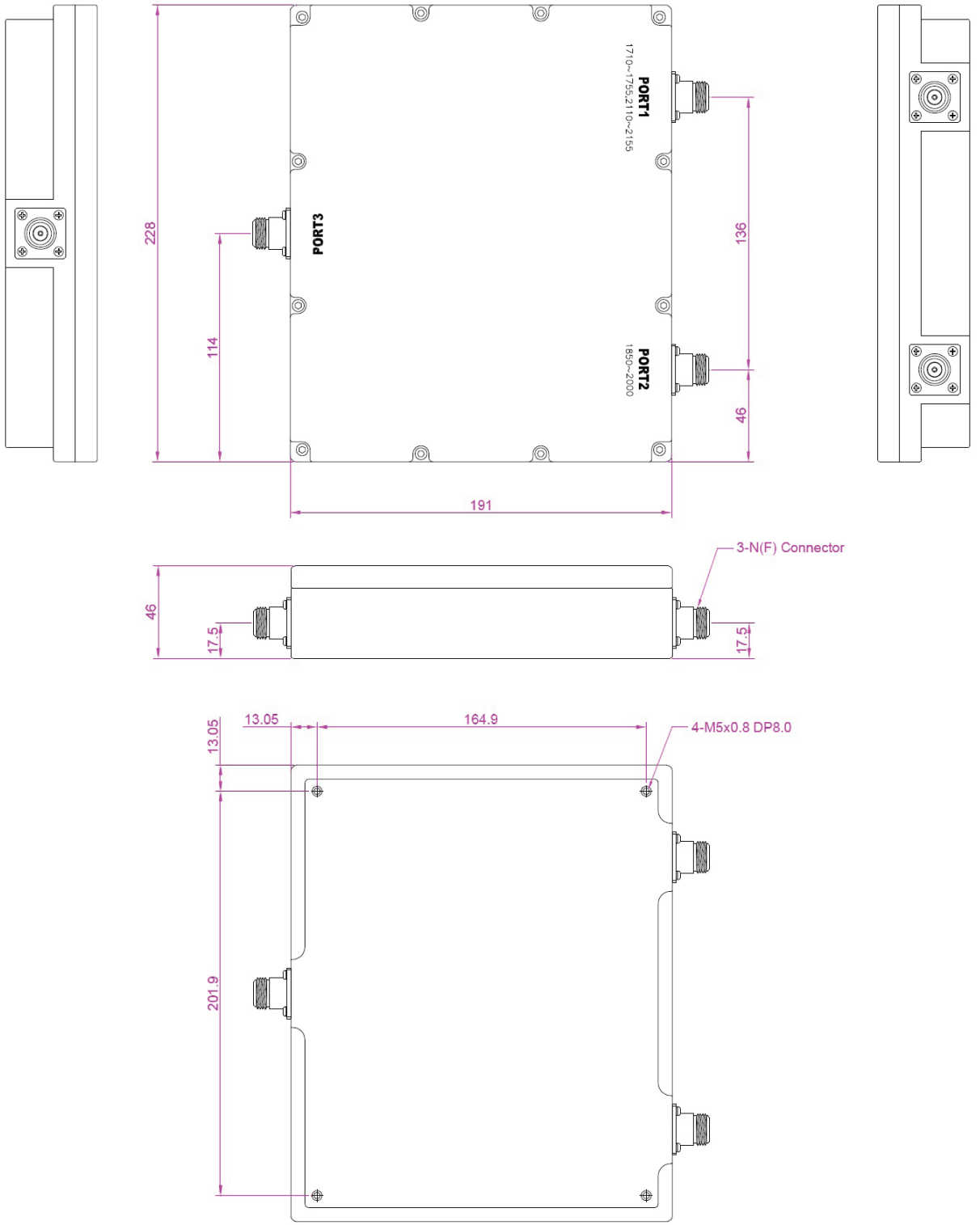

Microlab Model BK-72D