700/850 MHz Diplexer Filter, BK-71D/DP

700 MHz Band and 850 MHz Cellular Cavity Diplexer
698 - 793/824 - 894 MHz, 7-16 connectors
Rev. B

$ Saver Product Line

- Integrates 700/850 MHz Bands
- 50 dB Input Isolation
- 100 W/port Avg. Power
- Low Passive Intermods, PIM
- Minimal RF Insertion Loss & Ripple
- Rugged, High Reliability,
- Optional Outdoor Version
- RoHS compliant

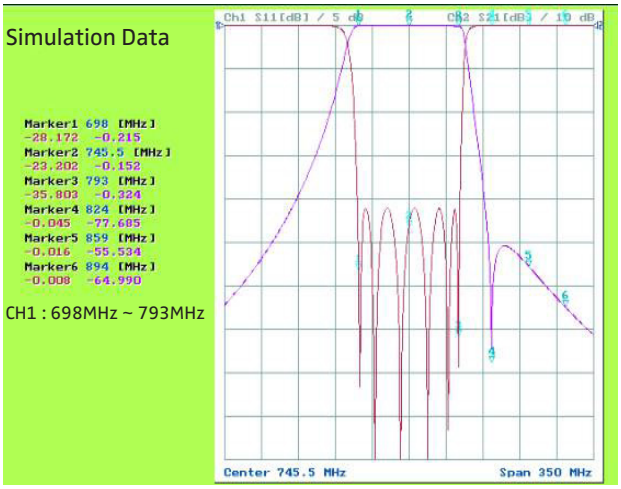
Microlab Model BK-71D is a Diplexer which allows combination and separation of the signals in the LTE band 698 - 793 MHz and the 824 - 894 cellular band. To minimize band inter-reaction, the inputs are well isolated and have minimal insertion loss over their respective frequency bands.

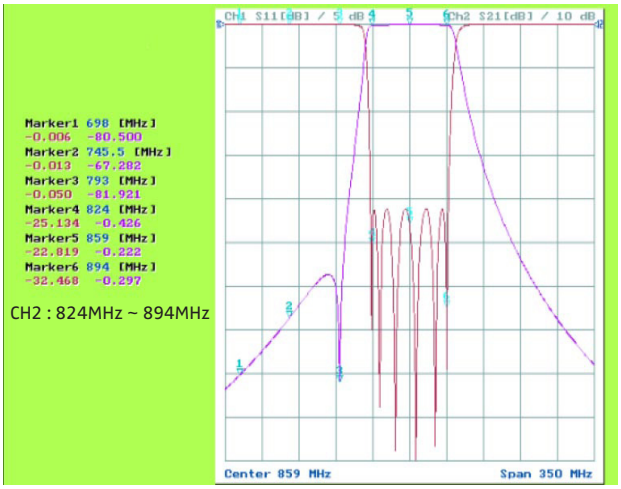
The Diplexer has been designed using passive, proprietary techniques which minimizes cost and size. At the same time it ensures minimal loss and very high reliability at input powers up to 100W per input.

For use in outdoor environments, IP67, order Model BK-71DP.

Frequency Bands:	
Port 1 - Port 3:	698 - 793 MHz
Port 2 - Port 3:	824 - 894 MHz
P1:P2 Isolation:	>50 dB in band
Return Loss:	>19 dB, all ports
Passband Loss:	<0.6 dB
Passband Ripple:	<0.4 dB
Input Power Rating:	100W/input avg., 3 kW peak
PIM (Intermod):	<-150 dBc (2 x +43dBm input)
DC Path:	Center Pins DC short to ground
Impedance:	50Ω nominal
Environment:	-25°C to +55°C, Outdoor: IP67
Finish: Connectors:	7-16(f) Silver plating
Housing Outdoor:	Black color epoxy coating
Housing Indoor:	Silver plated
Weight, nominal:	4.50 lbs (2.05 kg)

Simulation Data





Note: Specifications are subject to change without prior notification.

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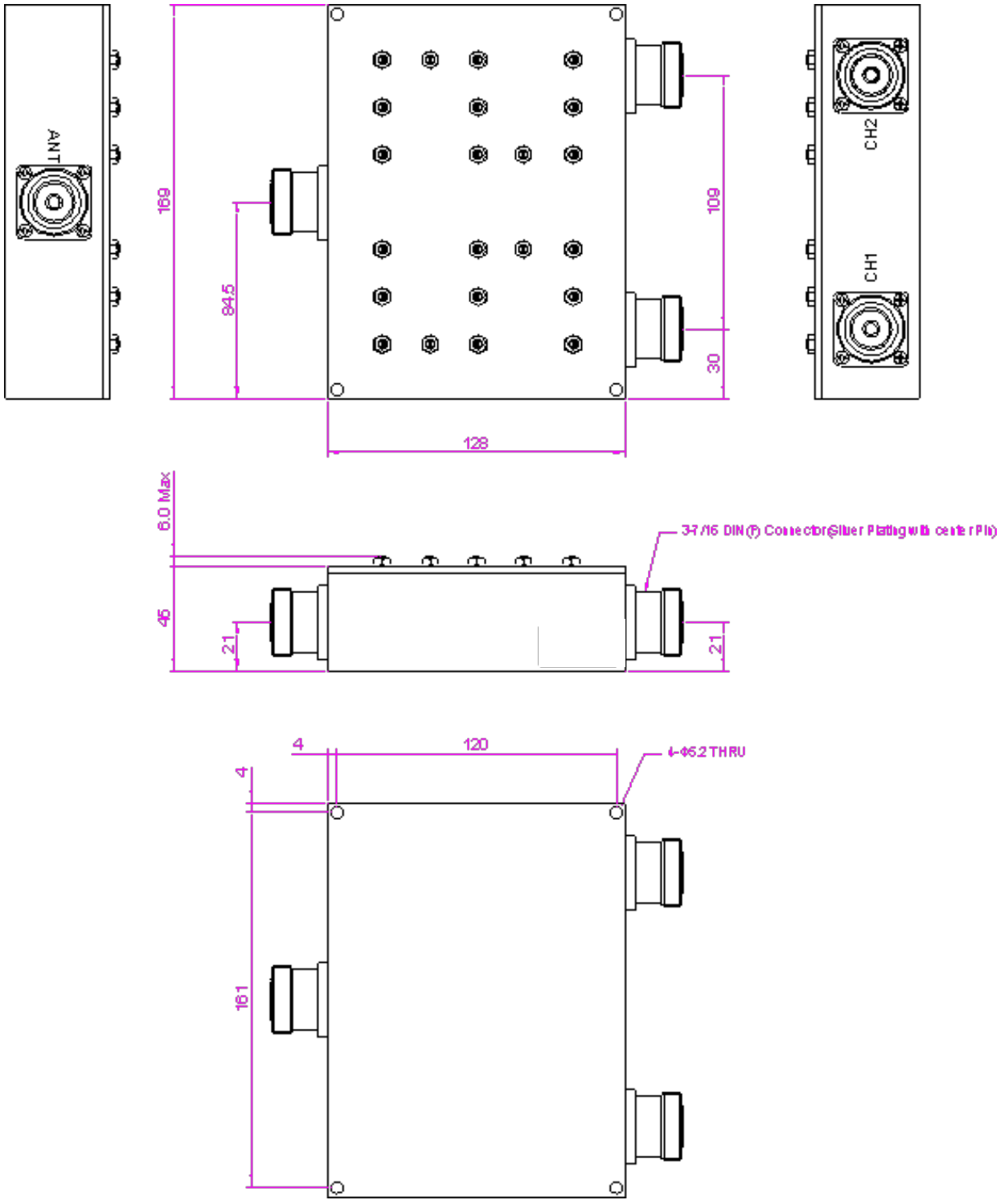
Indoor Model BK-71D Outline
(169.0 x 128.0 x 45.0)
Dimensions in mm



Outdoor Model BK-71DP Outline
(181.0 x 140.0 x 56.0)
Dimensions in mm