

### \$ 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. (02/15)

#### Frequency Bands:

Port 1 - Port 3: 698 - 793 MHz

Port 2 - Port 3: 824 - 894 MHz

P1:P2 Isolation: >50 dB in band

VSWR, all ports: 1.25:1 max.

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

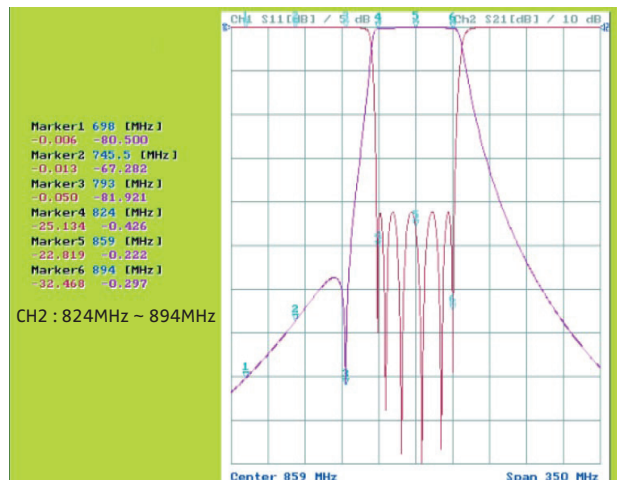
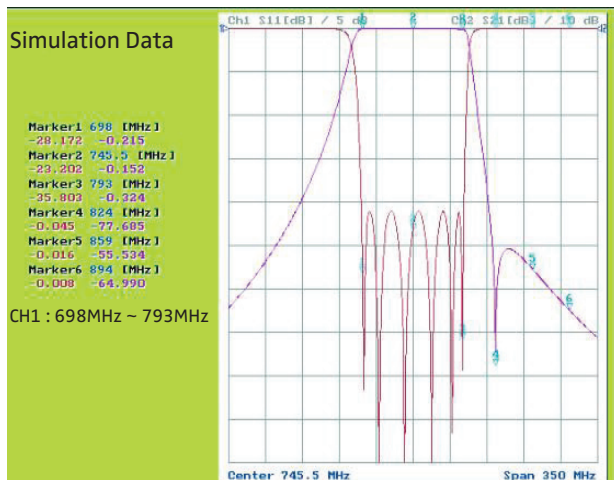
Environment: -25°C to +55°C, Outdoor: IP67

Finish: Connectors: 7-16(f) Silver plating

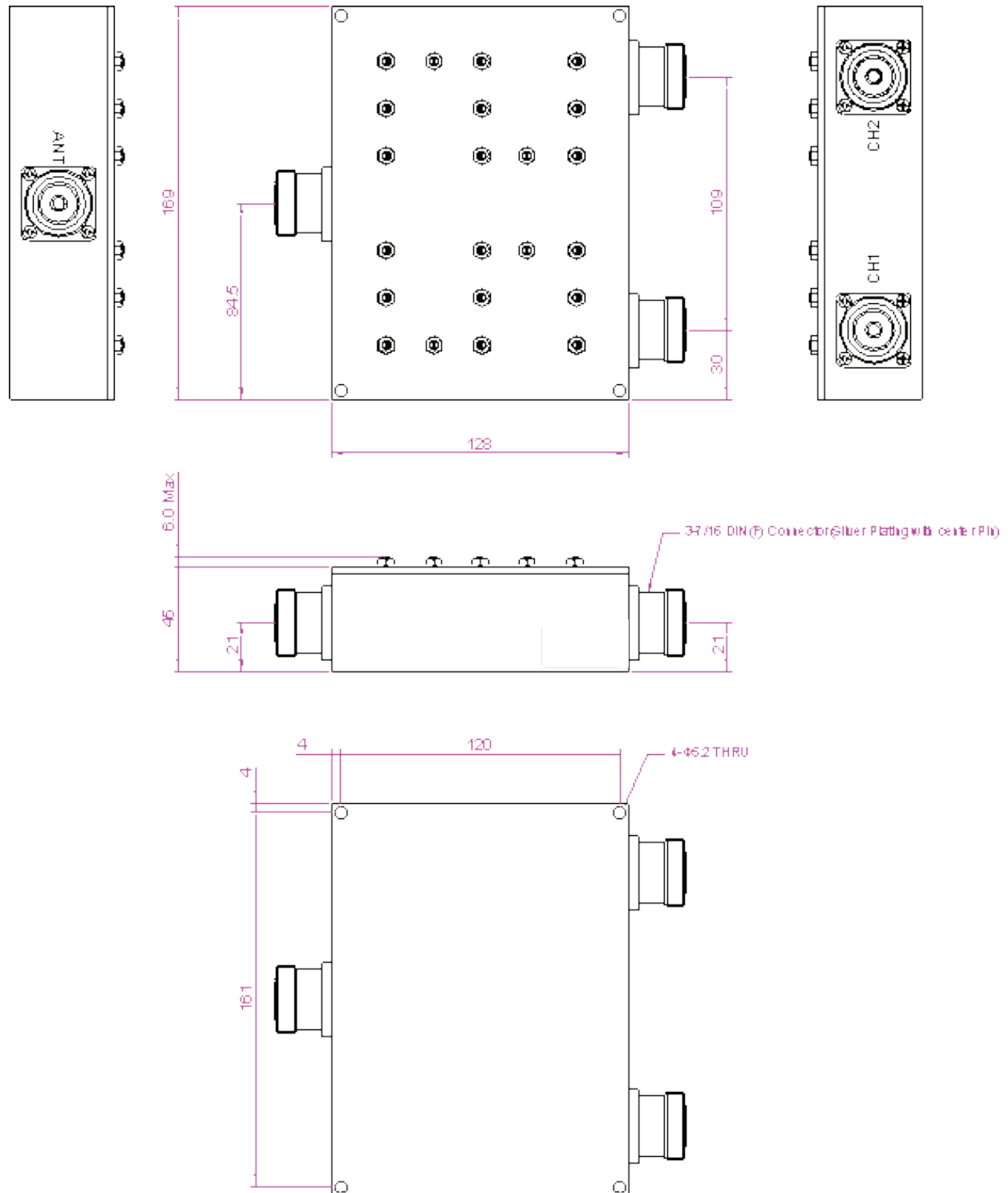
Housing Outdoor: Black color epoxy coating

Housing Indoor: Silver plated

Weight, nominal: 4.50 lbs (2.05 kg)



**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

