

- ◆ Integrates 700/850 MHz Bands
- ◆ 50 dB Input Isolation
- ◆ 100 W/port Avg. Power
- ◆ Minimal RF Insertion Loss & Ripple
- ◆ Rugged, High Reliability,
- ◆ Low Cost Design
- ◆ RoHS compliant



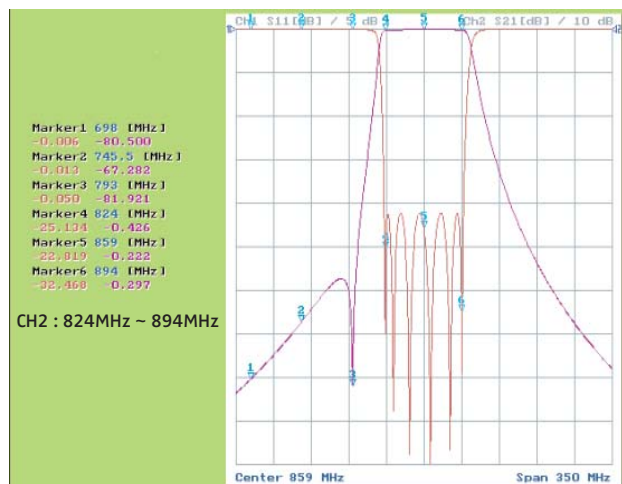
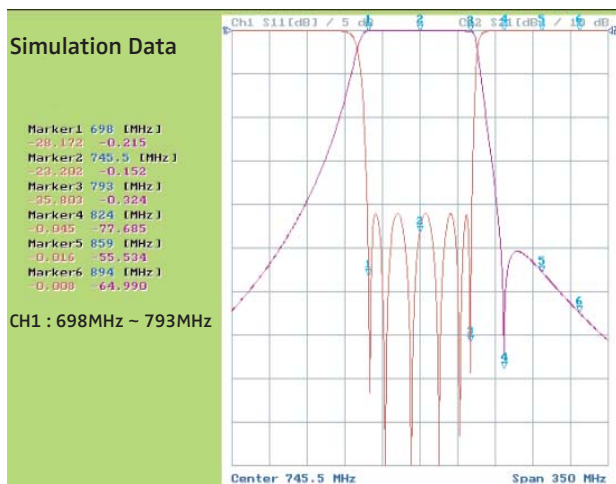
Microlab Model BK-71N is a Diplexer which allows combination and separation of the signals in the LTE band 698 - 793 MHz and the 824 - 894 cellular band. To minimize band inter-reaction, the inputs are well isolated and have minimal insertion loss over their respective frequency bands.

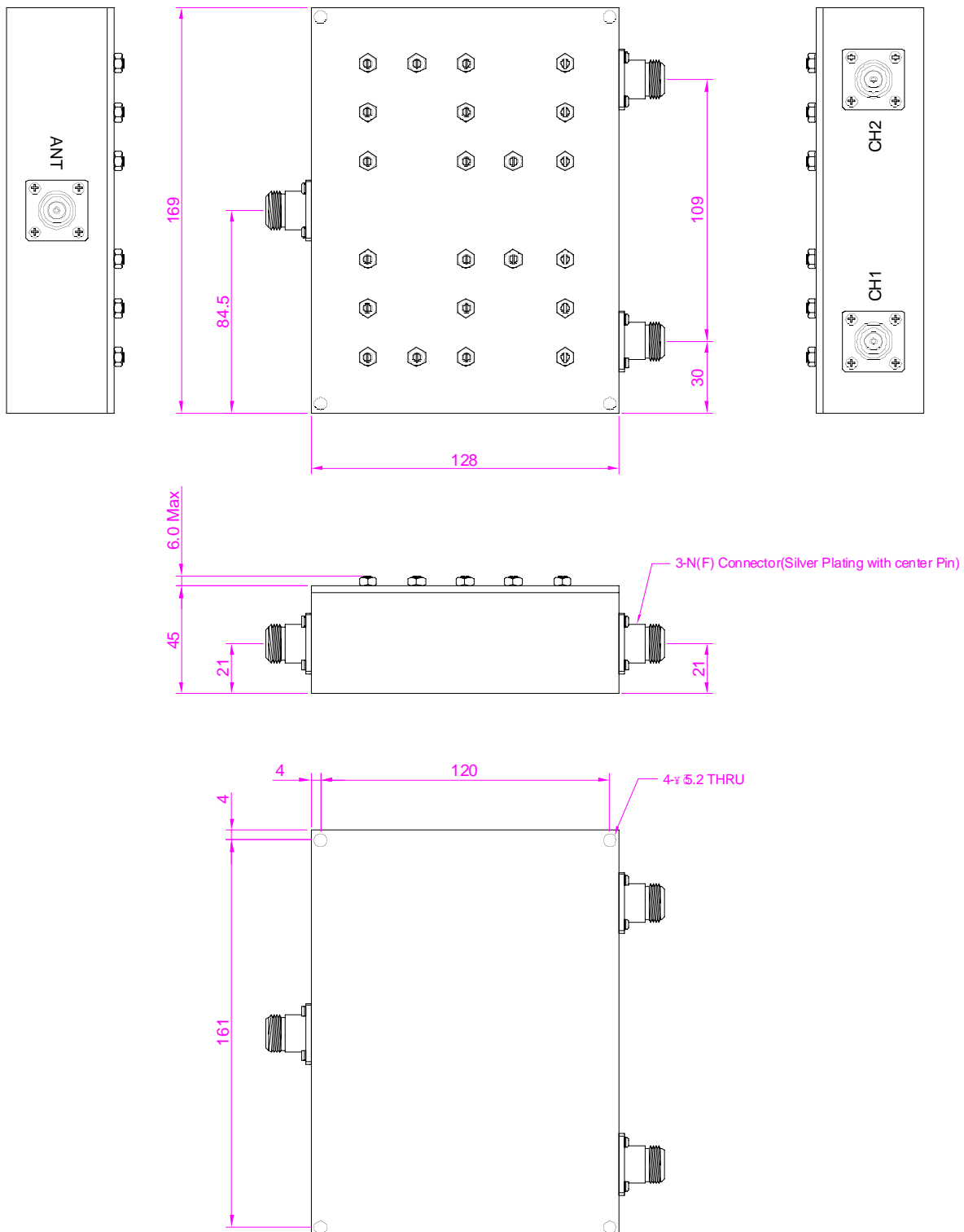
The Diplexer has been designed using passive, proprietary techniques which minimizes cost and size. At the same time it ensures minimal loss and very high reliability at input powers up to 100W per input.

For use in outdoor environments, IP67, order Model **BK-71NP**. This unit is also available with 7-16 mm connectors as the BK-71D. (03/12-2)

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 |
| DC Path: | Center Pins DC short to ground |
| Impedance: | 50Ω nominal |
| Environment: | -25°C to +55°C, Indoor |
| Finish: Connectors: | N(f) Silver plating |
| Housing: | Black color epoxy |
| Weight, nominal: | 4.50 lbs (2.05 kg) |



**Indoor Model BK-71N Outline
(169.0 x 128.0 x 45.0)**


**Outdoor Model BK-71NP Outline
(181.0 x 140.0 x 56.0)**
