Microlab Model BK-75 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-reactation, 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.

**Simulation Data**

- **Model Connector Environmental Weight, nom.**
- **Number Type Specification**
  - **Port 1 - Port 3:** 698 - 793 MHz
  - **Port 2 - Port 3:** 824 - 894 MHz
  - **P1:P2 Isolation:** 60 dB typ., >50 dB in band
  - **Return Loss:** >19 dB, all ports
  - **Passband Loss:** 0.35 dB typ., 0.6 dB max.
  - **Passband Ripple:** 0.2 dB typ., 0.4 dB max.
  - **PIM, (Passive Intermod)**: <153 dBC, for 2 x 20W tones measured in downlink band
  - **Input Power Rating:** 100W/port avg., 3 kW peak
  - **DC Path:** Center Pins DC short to ground
  - **Impedance:** 50Ω nominal
  - **Finish:**
    - **Connectors:** Silver plating
    - **Housing BK-75D:** Powder Coating, RAL 7035
    - **Housing BK-75N:** Silver Plating
    - **EMC:** ETS 300 342-3

*Measured to ETSI EN 300 019 class 4.1

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$ Saver Product Line $

- Integrates 700/850 MHz Bands
- Guaranteed Low PIM <-153 dBC
- 50 dB minimum Input Isolation
- 100 W/port Avg. Power
- Minimal RF Insertion Loss & Ripple
- Rugged, High Reliability
- Indoor and Outdoor IP67 Models
- RoHS compliant
Model BK-75N Outline
(for Indoor Use)
Model BK-75D Outline
(For Outdoor Use)