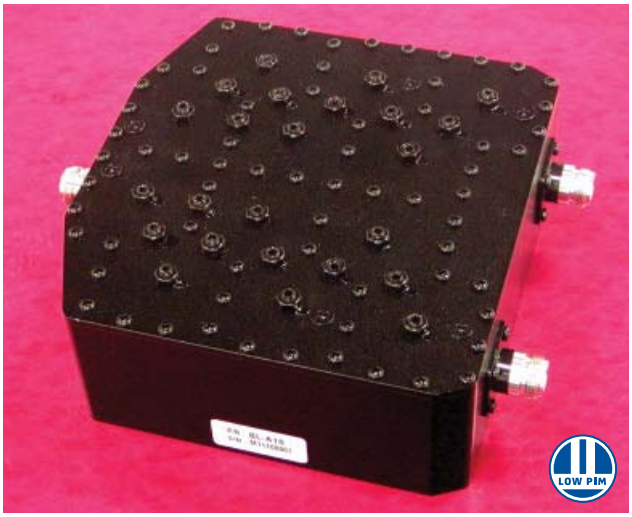
# LTE 700 U-C Duplexer, BL-16 series

Duplexer for 700 MHz Band Upper C Block, 300W
776 - 787/746 - 757 MHz
Rev. B

## $ Saver Product Line

- Combines or Splits Tx and Rx Signals for 700 MHz Systems Upper Block C
- <-153 dBc specified PIM
- High Isolation
- Low Insertion Loss
- Up to 300W power
- High reliability
- RoHS Compliant
- N connectors




| | Model/Connector N (f) | 7-16 (f) |
|---|---|---|
| 700 Upper Block C Duplexer | **BL-16N** | *BL-16D |

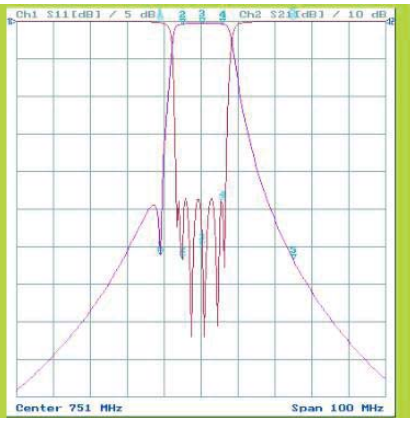
*7-16 model in development

Microlab Cavity Duplexer Model BL-16 series allows combination and separation of the Tx and Rx signals in a duplex 700 MHz Upper Block C signal. Units provide high isolation, and low insertion loss.

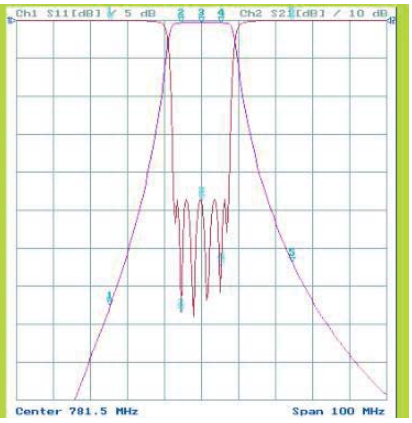
Attention to mechanical design, ensures low loss, and high reliability. Other models available for different bands and powers. (08/13).

| | |
|---|---|
| Rx Passband: | 776 - 787 MHz (Rx Port) |
| Tx Passband: | 746 - 757 MHz (Tx Port) |
| Bandwidth, Tx and Rx: | 11 MHz |
| Insertion Loss: | 1.0 dB max. |
| Passband Ripple: | 0.7 dB max. |
| Return Loss, all ports: | 20 dB min. |
| PIM (Intermod): | <-153 dBc (measured in Rx Block using two +43 dBm tones in corresponding Tx Block) |
| Input Isolation: | >60dB (between Tx/Rx bands) |
| Out of Band Rejection: | >55dB, DC-740 & 806-894 MHz |
| Power Rating: | 300W avg., 5 kW peak |
| Impedance: | 50Ω nominal |
| Environment: | -20°C to +65°C, IP64 |
| Finish: Connectors: | N (f) or 7-16 mm triplated |
| Housing Finish: | Black epoxy painted aluminum |
| Weight, nom: | 8.5 lb., 3.8 kg |

**Tx Path Simulation Data**




**Rx Path Simulation Data**

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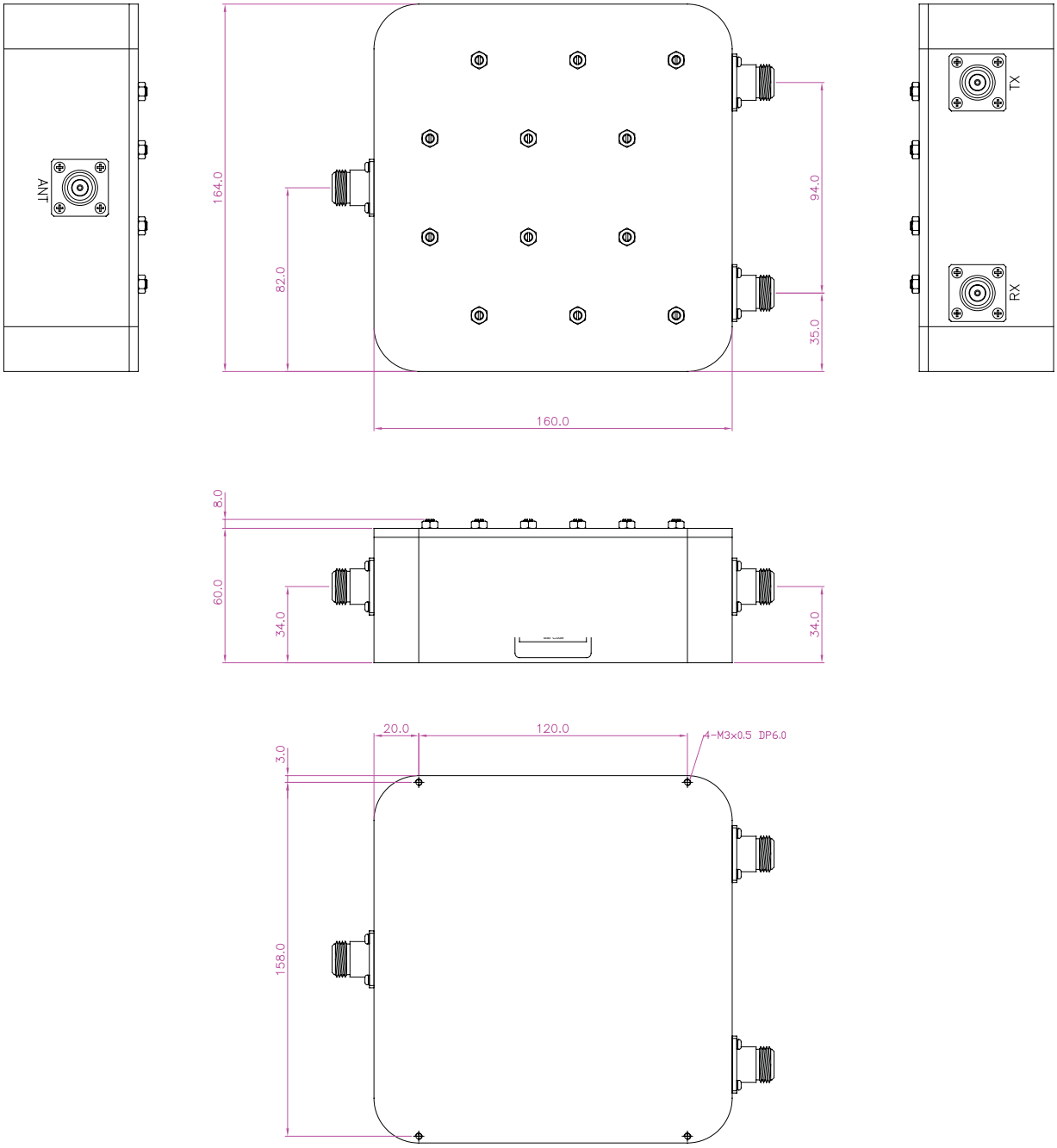


All dimensions in mm nominal