

\$ Saver Product Line

- ◆ Combines or Splits Tx and Rx Signals for all 700 MHz LTE Systems
- ◆ <-153 dBc specified PIM
- ◆ High Isolation
- ◆ Low Insertion Loss
- ◆ Up to 60W power
- ◆ High reliability
- ◆ RoHS Compliant
- ◆ N connectors



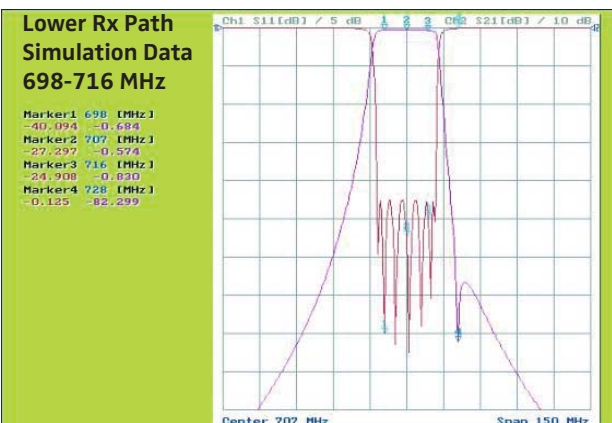
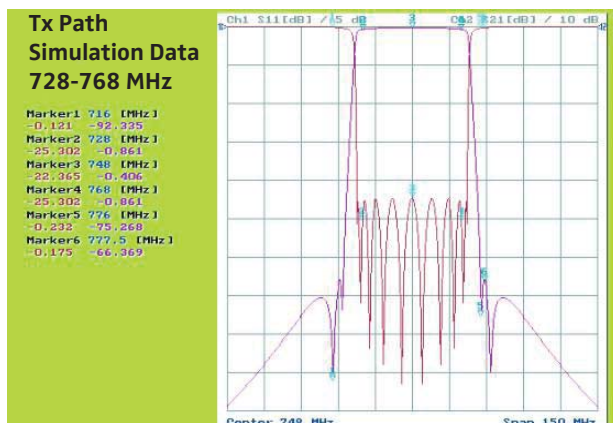
	Model/Connector N (f) 7-16 (f)
700 MHz LTE Duplexer	BL-20N *BL-20D *7-16 model in development

Microlab Cavity Duplexer Model BL-20 series allows combination and separation of the Tx and Rx signals in all duplex 700 MHz Band LTE signals. 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, (Rx Port): 698 - 716 and 776 - 798 MHz
Tx Passband, (Tx Port): 728 - 768 MHz
Insertion Loss: 1.0 dB max.
Passband Ripple: 0.8 dB max.
Return Loss, all ports: 18 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)
Power Rating: 60W avg., 5 kW peak
Impedance: 50Ω nominal
Environment: -30°C to +80°C, IP64
Finish: Connectors: N (f) or 7-16 (f) triplated
Housing Finish: Black epoxy painted aluminum
Weight, nom: 6.8 lbs, 3.1 kg



**Upper Rx Path
Simulation Data
776-798 MHz**

Marker1	768 [MHz]	-0.260	-70.045
Marker2	776 [MHz]	-23.009	-0.824
Marker3	787 [MHz]	-22.448	-0.465
Marker4	798 [MHz]	-25.535	-0.520

