

## \$ 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



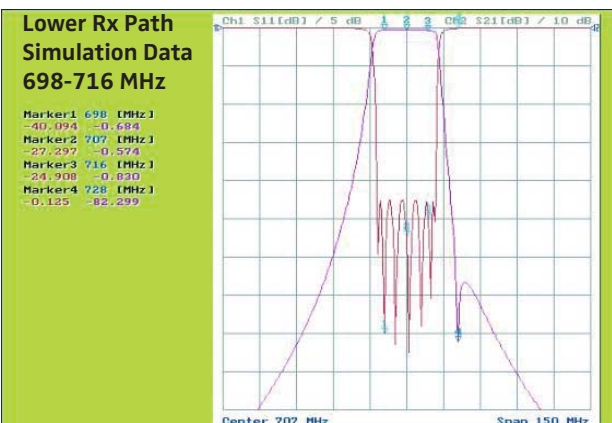
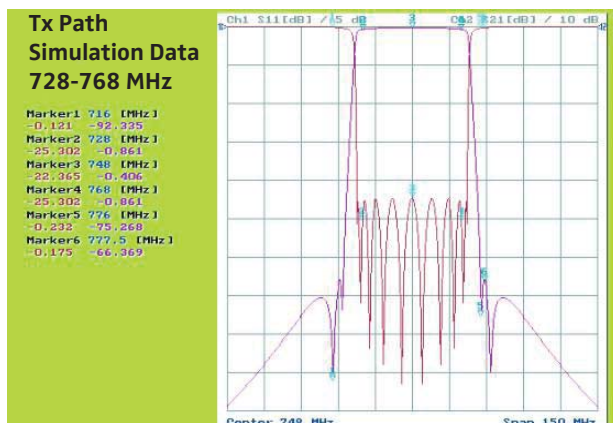
	Model/Connector N (f)      7-16 (f)
700 MHz LTE Duplexer	<b>BL-20N</b> *BL-20D
	*7-16 model in development

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

