

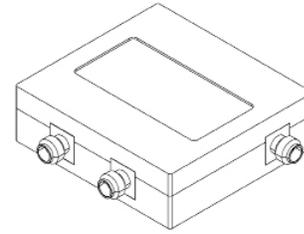
# BC-120 (5-120 GHz)

## Low Loss Bi-Directional Coupler

### General

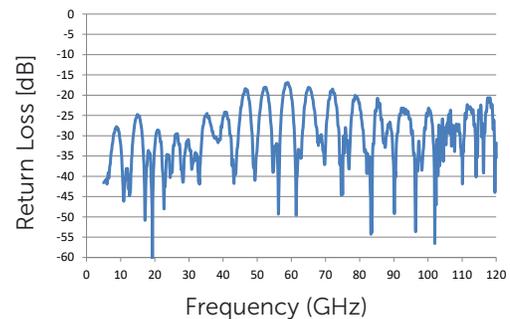
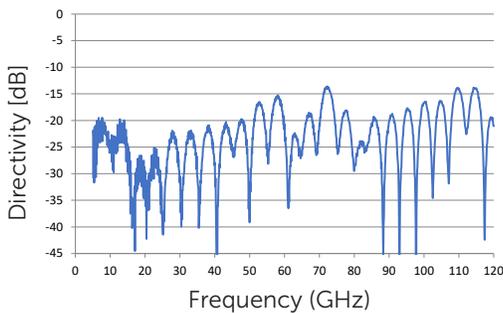
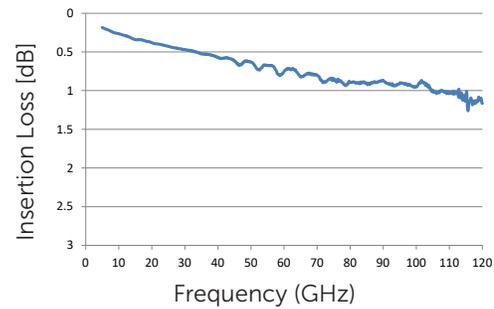
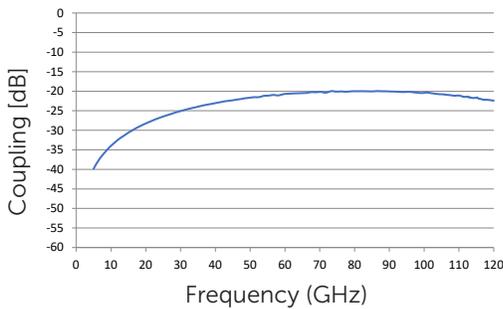
Driven by the work we have been doing for 5G our need for high power low loss bi-directional couplers was increasing and it was obvious we could not rely on commercially available couplers for mmWave on wafer load pull.

We therefore developed a family of new low loss bi-directional couplers covering 40, 67, 110 and 120GHz. These bi-directional couplers are not only low loss but have high directivity which is a must for Load Pull like application where the VSWR values seen by the couplers will significantly affect the performance of the coupler making the measurements invalid.



| Model  | Freq. Range (GHz) | Connector Type | Insertion Loss (max, dB) | Input Return Loss (min, dB) | Directivity (min, dB/ typical, dB) | Weight (lbs) |
|--------|-------------------|----------------|--------------------------|-----------------------------|------------------------------------|--------------|
| BC-120 | 5-120             | 1mm            | 1.5                      | 12                          | 10/15                              | 0.05         |

### Typical Response



### Dimensions (in)

