Renaissance Electronics Corporation has developed a unique ultra-small broadband Circulator covering 8.5 to 18.0 GHz. This broadband Circulator offers excellent transmitter protection from return signals and also acts in place of a TR switch for simultaneous transmit and receive operation.

Covering both the X- and Ku-bands in the smallest footprint possible, this industry first dual-band circulator is available as a drop-in package size of 0.25” x 0.25”. 3G8BM-1 provides minimum of 14 dB Isolation while handling 4 watts of power.

### Characteristics

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>8.5-18.0 GHz</td>
</tr>
<tr>
<td>Isolation</td>
<td>14 dB</td>
</tr>
<tr>
<td>Insertion Loss</td>
<td>1.1 dB</td>
</tr>
<tr>
<td>VSWR</td>
<td>1.5:1</td>
</tr>
<tr>
<td>Power</td>
<td>4 Watts</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>-20ºC to +70ºC</td>
</tr>
</tbody>
</table>

### Market

Military

### Features

- Compact size
- 8.5-18 GHz
- Isolation of 14 dB
- Insertion Loss of 1.1 dB
- VSWR of 1.5:1
- Power of 4 Watts

### Benefits

- Compact Footprint of 0.25” x 0.25”
- Dual-Band
- Reduces Noise
- Low Noise Figure
- Low Reflections
- Keeps Amplifier in the Linear Range

The New Thinking in Wireless Technology
**Plot S12**

**Plot S21**

**NOTE:** INCLUDES TEST FIXTURE LOSS

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