Low Noise Block Down Converter
Ku Band, WR75, 1+1
RLNB-Ku-L-band-WR75-1+1-g11

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Frequency</td>
<td>See Table (above)</td>
</tr>
<tr>
<td>LNB A to LNB B isolation</td>
<td>30dB min.</td>
</tr>
<tr>
<td>Input VSWR</td>
<td>2.5:1 typ.</td>
</tr>
<tr>
<td>Input waveguide</td>
<td>WR75G</td>
</tr>
<tr>
<td>Noise temperature at 25 °C</td>
<td>75 °K (1dB)</td>
</tr>
<tr>
<td>Local Oscillator frequency</td>
<td>10.00 (01), 10.75 (02), 11.30 (03) GHz</td>
</tr>
<tr>
<td>Phase noise (LO)</td>
<td>-63dBC/Hz @ 100Hz offset</td>
</tr>
<tr>
<td></td>
<td>-73dBC/Hz @ 1KHz offset</td>
</tr>
<tr>
<td></td>
<td>-83dBC/Hz @ 10KHz offset</td>
</tr>
<tr>
<td></td>
<td>-93dBC?Hz @ 100KHz offset</td>
</tr>
<tr>
<td>External reference</td>
<td>10MHz @ 0 to -10dBm</td>
</tr>
<tr>
<td>Phase noise (reference, typical)</td>
<td>-135dBC/Hz@100Hz offset</td>
</tr>
<tr>
<td></td>
<td>-143dBC/Hz @ 1KHz offset</td>
</tr>
<tr>
<td></td>
<td>-154dBC/Hz @ 10KHz offset</td>
</tr>
<tr>
<td>Output frequency</td>
<td>See Table (above)</td>
</tr>
<tr>
<td>VSWR</td>
<td>2.3:1</td>
</tr>
<tr>
<td>Output intercept point</td>
<td>20dBm</td>
</tr>
<tr>
<td>Output power at P1dB</td>
<td>0dBm</td>
</tr>
<tr>
<td>Image rejection</td>
<td>45 dB</td>
</tr>
<tr>
<td>IMD with 2 input carriers</td>
<td>&lt;-75dBC (typical)</td>
</tr>
<tr>
<td>Spurious (fixed)</td>
<td>-140dBm (unrelated to input signal)</td>
</tr>
<tr>
<td>DC voltage</td>
<td>+12 to +18V</td>
</tr>
<tr>
<td>DC current</td>
<td>300mA</td>
</tr>
<tr>
<td>Output</td>
<td>Type N female</td>
</tr>
<tr>
<td>Color</td>
<td>White Powder coat</td>
</tr>
</tbody>
</table>

Order Examples: RLNB-10.95-11.70-L-band-WR75-1+1-g11
Description: (Low Noise Block Down Converter, 10.95-11.70, L-band, WR75, 1+1)

Input/ Output Frequency Options

<table>
<thead>
<tr>
<th>#</th>
<th>RF In (GHz)</th>
<th>L-band Out (MHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10.95-11.7</td>
<td>950-1700</td>
</tr>
<tr>
<td>2</td>
<td>11.7-12.2</td>
<td>950-1450</td>
</tr>
<tr>
<td>3</td>
<td>12.25-12.75</td>
<td>950-1450</td>
</tr>
</tbody>
</table>

Note: See Also, Redundant BUC, Ku Band, RBUC-13.75-14.5-500W-REDT-ODU-g11
1:1 Redundant System for LNB UNITS WITH RRCU-R Controller

Note - One LNB fully protects the other in case of failure, automatically switching when required.