2015-02U59 Upconverter, 70 to 950 - 1750 MHz & 0.95 - 1.75 to 5.85-6.65 GHz

The 2015-02U59 Upconverter consists of an agile IF to L-band upconverter (in 1 MHz steps; 125 kHz and 100 kHz step options available) and a 950 to 1750 MHz to 5.85-6.65 GHz block upconverter with a fixed frequency LO and fixed gain.

For the agile IF to L-band upconverter, the front panel push button switches select the RF frequency, gain (-10 to +30 dB), and other parameters. Front panel LEDs provide indication of DC power (green), PLL alarm (red), remote operation (yellow) and TX carrier MUTE (yellow). Remote operation allows selection of frequency and gain. Parameter selection and frequency and gain settings appear on the LCD display. Connectors are 75Ω, BNC (female) for the IF input and the external reference input and output. 50Ω, BNC (female) for the L-band RF output and L-band input, and SMA for the C band RF output.

It has a high stability (±0.01 ppm) 10 MHz reference. The 10 MHz output connector contains either the internal or external 10 MHz reference signal as selected locally or remotely.

The unit is powered by a 100-240 ±10% VAC power supply, and housed in a 11/4” X 19” X 16” rack mount chassis.

Channel Characteristics
- Frequency Sense: Non-inverting, Non-inverting
- Frequency Resp. (MHz): 0.5 GHz & 4.15 GHz
- Frequency Resp. band: 0.8 to 4.15 GHz
- Gain, max. at Fc: 0 dBm
- Gain, range, 1±1 dB steps: 0 to +30 dB
- Frequency Resp. band: 0.8 to 4.15 GHz
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Sync失锁告警/RS485/RS232/TCP/IP/HTTP/telnet/WHB/SNMP
- RF Connectors: SMA (RF), 50Ω, BNC (RF), 50Ω, N-type (RF), 75Ω, SMA (L-BAND), 50Ω, BNC (L-BAND), 75Ω, N-type (L-BAND)
- IF Connectors: BNC (IF), 50Ω, SMA (IF), 50Ω, BNC (IF), 75Ω, SMA (IF), 75Ω, BNC (IF)
- LO frequency: 1.0 MHz, 2.0 GHz
- Frequency Sense: Non-inverting, Non-inverting

Equipment Specifications*

<table>
<thead>
<tr>
<th>Parameter</th>
<th>IF to L</th>
<th>L to C Block</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impedance/Return Loss</td>
<td>75Ω/18 dB</td>
<td>50Ω/14 dB</td>
</tr>
<tr>
<td>Frequency</td>
<td>70 ± 18 MHz</td>
<td>0.95 - 1.75 GHz</td>
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<tr>
<td>Noise Figure, Max.</td>
<td>20 dB at max gain</td>
<td>15 dB at max gain</td>
</tr>
<tr>
<td>Input Level range</td>
<td>-40 to -10 dBm</td>
<td>-40 to -20 dBm</td>
</tr>
<tr>
<td>Impedance/Return Loss</td>
<td>50Ω/12 dB</td>
<td>50Ω/14 dB</td>
</tr>
<tr>
<td>Frequency</td>
<td>0.95 - 1.75 GHz</td>
<td>5.85 - 6.65 GHz</td>
</tr>
<tr>
<td>Output Level Range</td>
<td>-30 to -10 dBm</td>
<td>-20 to 0 dBm</td>
</tr>
<tr>
<td>1 dB comp. max gain</td>
<td>+0 dBm</td>
<td>+10 dBm</td>
</tr>
<tr>
<td>Mute @ 0 dBm out</td>
<td>&gt;55 dB</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Channel Characteristics
- Gain, max. at Fc: +30 ±2 dB, +20 ±1 dB
- Gain, range, 1±1 dB steps: -10 to +30 dB, NONE
- Frequency Resp. band: ±1.5 dB, ±1.0 dB
- Frequency Resp. band: ±0.5 ±1 dB, ±1.0 dB
- LO frequency: 1 MHz, 2.0 GHz
- Frequency Sense: Non-inverting, Non-inverting

Synthesizer Characteristics
- Frequency Accuracy: ±0.01 ppm
- Frequency Step, L-band: 1 MHz, 125 kHz and 100 kHz step options available
- 10 MHz Level (In or Out): 3 dBm, ±3 dB, 75 ohms

Contact Cross for other options

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