Surface Mount
Voltage Controlled Oscillator

ROS-2500+

Wide Band 1600 to 2500 MHz

Features
• wideband, 1600 to 2500 MHz
• low phase noise, -133 dBc/Hz at 1 MHz offset, typ.
• aqueous washable

Applications
• PCS

Electrical Specifications

<table>
<thead>
<tr>
<th>FREQUENCY (MHz)</th>
<th>POWER OUTPUT (dBm)</th>
<th>TUNING VOLTAGE (V)</th>
<th>PHASE NOISE (dBc/Hz) SSB at offset frequencies:</th>
<th>PULLING pk-pk @ 12 dBm (MHz)</th>
<th>PUSHING (MHz/V)</th>
<th>TUNING SENSITIVITY (MHz/V)</th>
<th>HARMONICS (dBc)</th>
<th>3 dB MODULATION BANDWIDTH (MHz)</th>
<th>DC OPERATING POWER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1600</td>
<td>2500</td>
<td>6.5</td>
<td>0.5</td>
<td>14</td>
<td>-66</td>
<td>-90</td>
<td>-113</td>
<td>-133</td>
<td>18.0</td>
</tr>
</tbody>
</table>

Pin Connections

RF OUT 10
VCC 14
V-TUNE 2
GROUND 1,3,4,5,6,7,8,9,11,12,13,15,16

Maximum Ratings

Operating Temperature -55°C to 85°C
Storage Temperature -55°C to 100°C
Absolute Max. Supply Voltage (Vcc) +15V
Absolute Max. Tuning Voltage (Vtune) +16V

Outline Dimensions (inch)

| A | B | C | D | E | F | G | H | J | K | L | M | N | P | Q | R | S | T | wt. |
| .500 | .500 | .180 | .100 | .080 | .115 | .060 | .040 | .540 | .060 | .100 | .135 | .135 | .115 | .140 | .070 | .150 | .075 grams |
| 12.70 | 12.70 | 4.57 | 2.54 | 2.03 | 2.92 | 1.52 | 1.02 | 13.72 | 1.52 | 2.54 | 3.43 | 3.43 | 2.92 | 3.56 | 1.78 | 3.81 | 1.78 | 1.0 |

Notes:
A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuits’ applicable established test performance criteria and measurement instructions.
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