

Voltage Controlled Oscillator

ROS-4861C-119+

Typical Performance Data

| V TUNE | TUNE SENS (MHz/V) | FREQUENCY (MHz) | | | POWER OUTPUT (dBm) | | | HARMONICS (dBc) | | | FREQ. PUSH (MHz/V) | FREQ OFFSET (kHz) | PHASE NOISE (dBc/Hz) |
|-----------|-------------------------|--------------------|--------|--------|-----------------------|-------|-------|-----------------|-------|-------|--------------------------|-------------------------|----------------------------|
| | | -40°C | +25°C | +85°C | -40°C | +25°C | +85°C | F2 | F3 | F4 | | | |
| 0.00 | 7.6 | 4842.1 | 4841.5 | 4836.8 | 7.7 | 7.7 | 7.4 | -24.6 | -43.4 | -35.1 | 0.2 | 1 | -80 |
| 0.25 | 7.1 | 4843.9 | 4843.4 | 4838.8 | 7.7 | 7.8 | 7.4 | -24.7 | -43.3 | -35.0 | 0.2 | 10 | -108 |
| 0.50 | 6.6 | 4845.8 | 4845.3 | 4840.7 | 7.8 | 7.8 | 7.4 | -24.8 | -43.1 | -34.9 | 0.2 | 100 | -132 |
| 0.75 | 6.4 | 4847.4 | 4847.0 | 4842.4 | 7.8 | 7.8 | 7.5 | -24.9 | -43.1 | -34.9 | 0.2 | 1000 | -153 |
| 1.00 | 6.2 | 4849.0 | 4848.6 | 4844.1 | 7.8 | 7.8 | 7.5 | -25.0 | -43.1 | -35.0 | 0.2 | | |
| 1.25 | 6.1 | 4850.5 | 4850.2 | 4845.6 | 7.9 | 7.8 | 7.5 | -25.1 | -43.1 | -35.4 | 0.2 | | |
| 1.50 | 6.0 | 4852.1 | 4851.8 | 4847.2 | 7.9 | 7.9 | 7.5 | -25.2 | -43.1 | -35.8 | 0.2 | | |
| 1.75 | 5.9 | 4853.5 | 4853.3 | 4848.7 | 7.9 | 7.9 | 7.5 | -25.3 | -43.2 | -35.9 | 0.2 | | |
| 2.00 | 5.9 | 4855.0 | 4854.8 | 4850.2 | 7.9 | 7.9 | 7.6 | -25.4 | -43.2 | -35.9 | 0.2 | | |
| 2.50 | 5.8 | 4857.9 | 4857.7 | 4853.2 | 8.0 | 7.9 | 7.6 | -25.5 | -44.4 | -36.5 | 0.2 | | |
| 3.00 | 5.6 | 4860.8 | 4860.6 | 4856.1 | 8.0 | 7.9 | 7.6 | -25.4 | -44.8 | -36.8 | 0.2 | | |
| 3.50 | 5.5 | 4863.6 | 4863.4 | 4859.0 | 8.0 | 8.0 | 7.7 | -25.3 | -45.3 | -37.6 | 0.2 | | |
| 4.00 | 5.3 | 4866.3 | 4866.1 | 4861.7 | 8.1 | 8.0 | 7.7 | -25.2 | -44.7 | -37.6 | 0.2 | | |
| 4.50 | 5.0 | 4868.9 | 4868.8 | 4864.4 | 8.1 | 8.1 | 7.8 | -24.9 | -45.1 | -37.8 | 0.2 | | |
| 5.00 | 4.7 | 4871.3 | 4871.3 | 4866.9 | 8.1 | 8.1 | 7.8 | -24.8 | -44.8 | -37.8 | 0.2 | | |
| 5.50 | 4.4 | 4873.7 | 4873.6 | 4869.3 | 8.2 | 8.2 | 7.8 | -24.7 | -44.7 | -38.5 | 0.2 | | |
| 6.00 | 4.0 | 4875.8 | 4875.8 | 4871.5 | 8.2 | 8.2 | 7.8 | -24.8 | -44.6 | -38.4 | 0.2 | | |
| 6.50 | 3.7 | 4877.9 | 4877.8 | 4873.5 | 8.2 | 8.2 | 7.9 | -24.9 | -44.7 | -38.2 | 0.2 | | |
| 7.00 | 3.3 | 4879.7 | 4879.7 | 4875.3 | 8.2 | 8.2 | 7.9 | -25.0 | -44.8 | -38.0 | 0.1 | | |
| 7.50 | 2.9 | 4881.3 | 4881.3 | 4876.9 | 8.2 | 8.2 | 7.9 | -25.1 | -44.5 | -38.2 | 0.2 | | |
| 8.00 | 2.6 | 4882.7 | 4882.8 | 4878.4 | 8.2 | 8.3 | 8.0 | -25.2 | -45.1 | -38.8 | 0.2 | | |
| 8.50 | 2.2 | 4884.0 | 4884.1 | 4879.6 | 8.3 | 8.3 | 8.0 | -25.2 | -45.4 | -39.0 | 0.2 | | |
| 9.00 | 1.9 | 4885.1 | 4885.2 | 4880.7 | 8.3 | 8.3 | 8.0 | -25.4 | -45.7 | -39.6 | 0.2 | | |
| 9.50 | 1.7 | 4886.0 | 4886.1 | 4881.7 | 8.3 | 8.3 | 8.0 | -25.4 | -45.5 | -39.7 | 0.2 | | |
| 10.00 | 1.7 | 4886.8 | 4887.0 | 4882.5 | 8.3 | 8.3 | 8.0 | -25.6 | -45.5 | -39.7 | 0.2 | | |

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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