

Voltage Controlled Oscillator

ROS-1280-819+

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 | 15.8 | 1245.6 | 1240.6 | 1237.3 | 7.3 | 7.1 | 6.8 | -26.0 | -26.5 | -36.4 | 0.1 | 1 | -90 |
| 0.25 | 14.4 | 1249.3 | 1244.6 | 1241.4 | 7.2 | 7.0 | 6.8 | -26.0 | -26.5 | -36.0 | 0.0 | 10 | -116 |
| 0.50 | 13.7 | 1252.9 | 1248.2 | 1245.1 | 7.2 | 7.0 | 6.7 | -26.1 | -26.3 | -36.8 | 0.0 | 100 | -136 |
| 0.75 | 13.3 | 1256.2 | 1251.6 | 1248.6 | 7.1 | 6.9 | 6.7 | -26.2 | -26.5 | -36.9 | 0.0 | 1000 | -156 |
| 1.00 | 12.9 | 1259.4 | 1254.9 | 1251.9 | 7.1 | 6.9 | 6.7 | -26.4 | -26.6 | -36.6 | 0.1 | | |
| 1.25 | 12.2 | 1262.5 | 1258.2 | 1255.2 | 7.1 | 6.9 | 6.6 | -26.7 | -26.1 | -36.2 | 0.1 | | |
| 1.50 | 12.6 | 1265.7 | 1261.2 | 1258.4 | 7.0 | 6.9 | 6.6 | -26.7 | -25.6 | -36.2 | 0.1 | | |
| 1.75 | 12.9 | 1268.9 | 1264.4 | 1261.4 | 7.0 | 6.9 | 6.7 | -26.6 | -25.9 | -36.5 | 0.1 | | |
| 2.00 | 13.0 | 1272.1 | 1267.6 | 1264.6 | 7.0 | 6.8 | 6.6 | -26.6 | -26.1 | -36.6 | 0.1 | | |
| 2.25 | 13.1 | 1275.3 | 1270.8 | 1267.8 | 6.9 | 6.8 | 6.6 | -26.6 | -26.2 | -36.9 | 0.1 | | |
| 2.50 | 13.3 | 1278.6 | 1274.1 | 1271.1 | 6.9 | 6.7 | 6.5 | -26.6 | -26.2 | -36.6 | 0.1 | | |
| 2.75 | 13.4 | 1281.9 | 1277.4 | 1274.4 | 6.9 | 6.7 | 6.5 | -26.7 | -26.1 | -36.5 | 0.2 | | |
| 3.00 | 13.6 | 1285.3 | 1280.8 | 1277.8 | 6.9 | 6.7 | 6.5 | -26.7 | -25.8 | -36.6 | 0.2 | | |
| 3.25 | 14.2 | 1288.8 | 1284.2 | 1281.2 | 6.9 | 6.7 | 6.5 | -26.9 | -25.6 | -36.5 | 0.2 | | |
| 3.50 | 14.5 | 1292.3 | 1287.7 | 1284.7 | 6.9 | 6.7 | 6.5 | -26.8 | -25.8 | -36.2 | 0.2 | | |
| 3.75 | 14.9 | 1296.0 | 1291.4 | 1288.3 | 6.8 | 6.7 | 6.5 | -26.8 | -25.9 | -36.2 | 0.2 | | |
| 4.00 | 15.1 | 1299.7 | 1295.1 | 1291.9 | 6.8 | 6.6 | 6.4 | -27.0 | -26.0 | -36.0 | 0.2 | | |
| 4.25 | 14.9 | 1303.4 | 1298.9 | 1295.7 | 6.8 | 6.6 | 6.4 | -27.2 | -25.8 | -36.6 | 0.2 | | |
| 4.50 | 15.5 | 1307.3 | 1302.6 | 1299.5 | 6.8 | 6.6 | 6.4 | -27.1 | -25.2 | -36.8 | 0.2 | | |
| 4.75 | 15.9 | 1311.2 | 1306.5 | 1303.3 | 6.8 | 6.6 | 6.4 | -26.8 | -25.3 | -36.2 | 0.2 | | |
| 5.00 | 15.9 | 1315.2 | 1310.5 | 1307.2 | 6.8 | 6.6 | 6.4 | -26.7 | -25.5 | -35.9 | 0.2 | | |
| 5.25 | 15.9 | 1319.1 | 1314.4 | 1311.2 | 6.7 | 6.5 | 6.3 | -26.7 | -25.4 | -35.7 | 0.2 | | |
| 5.50 | 15.8 | 1323.1 | 1318.4 | 1315.2 | 6.7 | 6.5 | 6.3 | -26.8 | -25.6 | -35.8 | 0.2 | | |
| 5.75 | 15.1 | 1326.9 | 1322.4 | 1319.2 | 6.8 | 6.5 | 6.3 | -26.7 | -25.5 | -36.3 | 0.2 | | |
| 6.00 | 15.2 | 1330.8 | 1326.1 | 1323.1 | 6.7 | 6.5 | 6.3 | -26.9 | -24.8 | -36.5 | 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.
- C. The parts covered by this specification document are subject to Mini-Circuits' standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCStore/terms.jsp

