

Voltage Controlled Oscillator

ROS-369-319R+

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) |
|-----------|-------------------------|--------------------|-------|-------|-----------------------|-------|-------|-----------------|-------|-------|--------------------------|-------------------------|----------------------------|
| | | -55°C | +25°C | +85°C | -55°C | +25°C | +85°C | F2 | F3 | F4 | | | |
| 0.00 | 21.4 | 340.7 | 338.5 | 336.8 | 2.8 | 2.6 | 1.7 | -20.8 | -46.6 | -38.0 | 0.7 | 1 | -90 |
| 0.25 | 19.7 | 345.9 | 343.8 | 342.1 | 2.8 | 2.8 | 2.1 | -21.1 | -45.1 | -36.5 | 1.0 | 10 | -117 |
| 0.50 | 17.8 | 350.8 | 348.7 | 347.0 | 2.9 | 2.8 | 2.3 | -21.5 | -44.5 | -35.8 | 0.9 | 100 | -138 |
| 0.75 | 16.5 | 355.3 | 353.2 | 351.5 | 2.9 | 2.9 | 2.4 | -21.5 | -44.5 | -35.5 | 0.7 | 1000 | -159 |
| 1.00 | 15.7 | 359.4 | 357.3 | 355.6 | 3.0 | 3.0 | 2.4 | -22.0 | -44.2 | -34.9 | 0.6 | | |
| 1.25 | 15.2 | 363.4 | 361.3 | 359.5 | 3.1 | 3.0 | 2.5 | -22.7 | -43.7 | -34.2 | 0.5 | | |
| 1.50 | 14.8 | 367.2 | 365.0 | 363.3 | 3.1 | 3.1 | 2.6 | -22.9 | -44.7 | -34.0 | 0.5 | | |
| 1.75 | 14.5 | 371.0 | 368.8 | 367.0 | 3.2 | 3.2 | 2.7 | -23.2 | -44.8 | -34.0 | 0.4 | | |
| 2.00 | 14.4 | 374.7 | 372.4 | 370.6 | 3.2 | 3.2 | 2.7 | -23.3 | -44.6 | -33.8 | 0.4 | | |
| 2.25 | 14.3 | 378.3 | 376.0 | 374.1 | 3.3 | 3.3 | 2.7 | -23.2 | -44.9 | -33.4 | 0.4 | | |
| 2.50 | 14.3 | 382.0 | 379.6 | 377.7 | 3.4 | 3.3 | 2.8 | -23.2 | -45.7 | -32.6 | 0.3 | | |
| 2.75 | 14.3 | 385.6 | 383.1 | 381.2 | 3.4 | 3.3 | 2.8 | -23.3 | -46.3 | -32.3 | 0.3 | | |
| 3.00 | 14.3 | 389.3 | 386.7 | 384.8 | 3.4 | 3.4 | 2.8 | -23.4 | -46.6 | -32.5 | 0.3 | | |
| 3.25 | 14.4 | 392.9 | 390.3 | 388.3 | 3.4 | 3.4 | 2.8 | -23.7 | -47.1 | -32.3 | 0.3 | | |
| 3.50 | 14.4 | 396.6 | 393.9 | 391.9 | 3.5 | 3.4 | 2.8 | -24.1 | -47.7 | -31.9 | 0.3 | | |
| 3.75 | 14.5 | 400.2 | 397.5 | 395.5 | 3.5 | 3.3 | 2.7 | -24.4 | -49.0 | -31.5 | 0.4 | | |
| 4.00 | 14.6 | 403.9 | 401.1 | 399.2 | 3.5 | 3.3 | 2.7 | -24.7 | -50.2 | -31.5 | 0.4 | | |
| 4.25 | 14.7 | 407.6 | 404.7 | 402.9 | 3.5 | 3.3 | 2.6 | -24.8 | -50.8 | -31.2 | 0.4 | | |
| 4.50 | 14.8 | 411.2 | 408.4 | 406.6 | 3.5 | 3.2 | 2.6 | -24.7 | -49.2 | -31.3 | 0.5 | | |
| 4.75 | 14.8 | 414.9 | 412.1 | 410.3 | 3.5 | 3.1 | 2.5 | -24.7 | -47.1 | -31.0 | 0.5 | | |
| 5.00 | 14.9 | 418.5 | 415.8 | 414.0 | 3.5 | 3.1 | 2.4 | -24.5 | -44.6 | -30.8 | 0.6 | | |
| 5.25 | 14.9 | 422.2 | 419.5 | 417.7 | 3.5 | 3.0 | 2.4 | -24.4 | -42.6 | -31.1 | 0.6 | | |
| 5.50 | 14.9 | 425.8 | 423.3 | 421.4 | 3.5 | 2.9 | 2.3 | -24.5 | -41.3 | -31.6 | 0.7 | | |
| 5.75 | 14.8 | 429.3 | 427.0 | 425.1 | 3.4 | 2.7 | 2.2 | -24.4 | -39.5 | -31.9 | 0.7 | | |
| 6.00 | 14.7 | 432.9 | 430.7 | 428.8 | 3.3 | 2.6 | 2.1 | -25.0 | -38.3 | -32.2 | 0.7 | | |
| 6.25 | 14.5 | 436.4 | 434.4 | 432.5 | 3.1 | 2.5 | 2.0 | -25.4 | -37.0 | -32.5 | 0.8 | | |
| 6.50 | 14.4 | 440.0 | 438.0 | 436.1 | 2.9 | 2.4 | 1.9 | -25.7 | -35.7 | -32.7 | 0.8 | | |
| 6.75 | 14.1 | 443.6 | 441.6 | 439.6 | 2.7 | 2.2 | 1.8 | -25.9 | -35.0 | -32.8 | 0.8 | | |
| 7.00 | 14.1 | 447.2 | 445.1 | 443.1 | 2.5 | 2.1 | 1.7 | -25.8 | -34.3 | -32.9 | 0.9 | | |

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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