

# Voltage Controlled Oscillator

ROS-365-119R+

## Typical Performance Data

| V<br>TUNE | TUNE<br>SENS<br>(MHz/V) | FREQUENCY<br>(MHz) |       |       | POWER OUTPUT<br>(dBm) |       |       | HARMONICS (dBc) |       |       | FREQ.<br>PUSH<br>(MHz/V) | FREQ<br>OFFSET<br>(kHz) | PHASE<br>NOISE<br>(dBc/Hz) |
|-----------|-------------------------|--------------------|-------|-------|-----------------------|-------|-------|-----------------|-------|-------|--------------------------|-------------------------|----------------------------|
|           |                         | -55°C              | +25°C | +85°C | -55°C                 | +25°C | +85°C | F2              | F3    | F4    |                          |                         |                            |
| 0.0       | 16.1                    | 319.5              | 318.1 | 317.4 | 6.8                   | 6.8   | 6.0   | -17.2           | -47.8 | -38.7 | 0.7                      | 1                       | -92                        |
| 0.3       | 14.2                    | 323.2              | 322.2 | 321.6 | 7.1                   | 6.9   | 6.1   | -17.3           | -48.2 | -37.7 | 0.7                      | 10                      | -119                       |
| 0.5       | 12.8                    | 326.6              | 325.7 | 325.1 | 7.3                   | 7.0   | 6.2   | -17.9           | -48.6 | -36.9 | 0.6                      | 100                     | -140                       |
| 0.8       | 11.9                    | 329.8              | 328.9 | 328.3 | 7.3                   | 7.0   | 6.3   | -18.2           | -49.3 | -36.1 | 0.5                      | 1000                    | -159                       |
| 1.0       | 11.3                    | 332.8              | 331.9 | 331.3 | 7.3                   | 7.0   | 6.3   | -18.2           | -49.4 | -35.6 | 0.5                      |                         |                            |
| 1.3       | 10.8                    | 335.6              | 334.7 | 334.1 | 7.3                   | 7.0   | 6.3   | -18.9           | -49.1 | -35.2 | 0.4                      |                         |                            |
| 1.5       | 10.6                    | 338.3              | 337.4 | 336.8 | 7.2                   | 7.0   | 6.3   | -18.8           | -48.8 | -34.9 | 0.4                      |                         |                            |
| 1.8       | 10.4                    | 341.0              | 340.0 | 339.4 | 7.2                   | 7.0   | 6.4   | -19.5           | -48.0 | -34.5 | 0.3                      |                         |                            |
| 2.0       | 10.3                    | 343.6              | 342.6 | 342.0 | 7.1                   | 7.0   | 6.4   | -19.8           | -47.1 | -34.0 | 0.3                      |                         |                            |
| 2.3       | 10.3                    | 346.2              | 345.2 | 344.6 | 7.1                   | 7.0   | 6.4   | -19.8           | -46.2 | -33.4 | 0.2                      |                         |                            |
| 2.5       | 10.3                    | 348.8              | 347.8 | 347.1 | 7.0                   | 6.9   | 6.3   | -20.4           | -45.0 | -33.0 | 0.2                      |                         |                            |
| 2.8       | 10.5                    | 351.4              | 350.4 | 349.7 | 6.9                   | 6.9   | 6.3   | -20.8           | -44.0 | -32.7 | 0.2                      |                         |                            |
| 3.0       | 10.6                    | 354.1              | 353.0 | 352.2 | 6.9                   | 6.8   | 6.3   | -21.2           | -42.8 | -32.6 | 0.1                      |                         |                            |
| 3.3       | 10.8                    | 356.8              | 355.6 | 354.9 | 6.8                   | 6.7   | 6.3   | -21.1           | -41.9 | -32.3 | 0.1                      |                         |                            |
| 3.5       | 11.1                    | 359.5              | 358.3 | 357.5 | 6.7                   | 6.7   | 6.2   | -21.5           | -41.0 | -31.9 | 0.1                      |                         |                            |
| 3.8       | 11.3                    | 362.3              | 361.1 | 360.2 | 6.5                   | 6.6   | 6.2   | -22.4           | -40.0 | -31.5 | 0.1                      |                         |                            |
| 4.0       | 11.6                    | 365.2              | 363.9 | 363.0 | 6.4                   | 6.5   | 6.1   | -22.8           | -39.1 | -31.1 | 0.0                      |                         |                            |
| 4.3       | 12.0                    | 368.1              | 366.8 | 365.9 | 6.3                   | 6.4   | 6.1   | -23.1           | -38.2 | -31.0 | 0.0                      |                         |                            |
| 4.5       | 12.3                    | 371.1              | 369.8 | 368.8 | 6.1                   | 6.2   | 6.0   | -23.3           | -37.4 | -30.9 | 0.0                      |                         |                            |
| 4.8       | 12.7                    | 374.2              | 372.9 | 371.9 | 5.9                   | 6.1   | 5.9   | -23.5           | -36.7 | -30.8 | 0.0                      |                         |                            |
| 5.0       | 13.1                    | 377.4              | 376.1 | 375.0 | 5.7                   | 5.9   | 5.8   | -23.6           | -36.0 | -30.4 | 0.1                      |                         |                            |
| 5.3       | 13.5                    | 380.6              | 379.4 | 378.3 | 5.4                   | 5.7   | 5.6   | -23.7           | -35.1 | -29.9 | 0.1                      |                         |                            |
| 5.5       | 14.0                    | 384.0              | 382.8 | 381.6 | 5.2                   | 5.5   | 5.5   | -23.7           | -34.2 | -29.7 | 0.1                      |                         |                            |
| 5.8       | 14.5                    | 387.5              | 386.3 | 385.1 | 4.9                   | 5.3   | 5.3   | -23.5           | -33.2 | -29.9 | 0.1                      |                         |                            |
| 6.0       | 15.0                    | 391.1              | 389.9 | 388.7 | 4.5                   | 5.0   | 5.1   | -23.5           | -32.2 | -30.1 | 0.1                      |                         |                            |
| 6.3       | 15.5                    | 394.9              | 393.6 | 392.5 | 4.2                   | 4.7   | 4.8   | -24.0           | -31.3 | -30.1 | 0.2                      |                         |                            |
| 6.5       | 16.0                    | 398.7              | 397.5 | 396.3 | 3.9                   | 4.4   | 4.6   | -23.7           | -30.6 | -30.1 | 0.2                      |                         |                            |
| 6.8       | 16.5                    | 402.7              | 401.5 | 400.3 | 3.5                   | 4.1   | 4.3   | -24.0           | -30.0 | -30.3 | 0.2                      |                         |                            |
| 7.0       | 16.5                    | 406.8              | 405.7 | 404.4 | 3.2                   | 3.8   | 4.0   | -23.8           | -29.3 | -30.9 | 0.3                      |                         |                            |

### Notes

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