

Voltage Controlled Oscillator

SOS-656PV-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) |
|-----------|-------------------------|--------------------|--------|--------|-----------------------|-------|-------|-----------------|--------|--------|--------------------------|-------------------------|----------------------------|
| | | -55°C | +25°C | +85°C | -55°C | +25°C | +85°C | F2 | F3 | F4 | | | |
| 0.0 | 22.75 | 605.34 | 601.40 | 597.97 | 0.04 | 0.04 | -0.25 | -13.65 | -53.54 | -58.79 | 0.75 | 1 | -89 |
| 0.3 | 19.21 | 610.67 | 607.09 | 604.06 | 0.02 | 0.02 | -0.27 | -13.69 | -51.70 | -56.05 | 0.50 | 10 | -113 |
| 0.5 | 17.06 | 615.27 | 611.89 | 609.07 | 0.01 | -0.01 | -0.29 | -13.57 | -51.18 | -53.85 | 0.38 | 100 | -134 |
| 0.8 | 15.58 | 619.41 | 616.15 | 613.46 | -0.02 | -0.03 | -0.31 | -13.56 | -50.34 | -52.35 | 0.31 | 1000 | -153 |
| 1.0 | 14.50 | 623.22 | 620.05 | 617.45 | -0.05 | -0.06 | -0.34 | -13.67 | -49.96 | -50.60 | 0.25 | | |
| 1.3 | 13.67 | 626.78 | 623.67 | 621.14 | -0.08 | -0.09 | -0.37 | -13.73 | -50.03 | -50.17 | 0.22 | | |
| 1.5 | 13.01 | 630.15 | 627.09 | 624.60 | -0.12 | -0.13 | -0.40 | -13.71 | -49.98 | -49.26 | 0.19 | | |
| 1.8 | 12.48 | 633.36 | 630.34 | 627.89 | -0.16 | -0.18 | -0.45 | -13.62 | -49.88 | -48.49 | 0.17 | | |
| 2.0 | 12.05 | 636.45 | 633.46 | 631.04 | -0.20 | -0.22 | -0.49 | -13.59 | -49.19 | -47.96 | 0.15 | | |
| 2.3 | 11.69 | 639.44 | 636.47 | 634.08 | -0.24 | -0.26 | -0.53 | -13.66 | -49.80 | -47.25 | 0.14 | | |
| 2.5 | 11.39 | 642.35 | 639.40 | 637.02 | -0.27 | -0.30 | -0.57 | -13.79 | -49.68 | -46.56 | 0.12 | | |
| 2.8 | 11.14 | 645.18 | 642.24 | 639.88 | -0.31 | -0.34 | -0.61 | -13.90 | -49.53 | -45.82 | 0.11 | | |
| 3.0 | 10.92 | 647.96 | 645.03 | 642.68 | -0.34 | -0.38 | -0.65 | -13.95 | -49.49 | -45.45 | 0.10 | | |
| 3.3 | 10.73 | 650.68 | 647.76 | 645.42 | -0.36 | -0.41 | -0.69 | -13.91 | -49.44 | -45.24 | 0.09 | | |
| 3.5 | 10.58 | 653.36 | 650.44 | 648.11 | -0.39 | -0.44 | -0.72 | -13.80 | -48.94 | -44.89 | 0.09 | | |
| 3.8 | 10.45 | 656.01 | 653.09 | 650.76 | -0.41 | -0.47 | -0.75 | -13.67 | -49.46 | -44.59 | 0.08 | | |
| 4.0 | 10.34 | 658.62 | 655.70 | 653.38 | -0.43 | -0.50 | -0.78 | -13.58 | -49.50 | -44.30 | 0.08 | | |
| 4.3 | 10.25 | 661.20 | 658.28 | 655.96 | -0.45 | -0.52 | -0.81 | -13.59 | -49.61 | -43.81 | 0.07 | | |
| 4.5 | 10.17 | 663.77 | 660.84 | 658.53 | -0.47 | -0.54 | -0.84 | -13.64 | -49.79 | -43.65 | 0.07 | | |
| 4.8 | 10.11 | 666.31 | 663.39 | 661.07 | -0.48 | -0.56 | -0.86 | -13.69 | -49.92 | -43.20 | 0.06 | | |
| 5.0 | 10.06 | 668.84 | 665.91 | 663.60 | -0.50 | -0.58 | -0.88 | -13.73 | -50.34 | -42.79 | 0.06 | | |
| 5.3 | 10.02 | 671.36 | 668.43 | 666.11 | -0.51 | -0.60 | -0.90 | -13.73 | -50.31 | -42.45 | 0.05 | | |
| 5.5 | 9.98 | 673.87 | 670.93 | 668.62 | -0.52 | -0.61 | -0.92 | -13.74 | -50.06 | -42.14 | 0.05 | | |
| 5.8 | 9.95 | 676.37 | 673.43 | 671.11 | -0.54 | -0.62 | -0.93 | -13.77 | -50.26 | -41.83 | 0.05 | | |
| 6.0 | 9.92 | 678.87 | 675.92 | 673.60 | -0.55 | -0.64 | -0.95 | -13.84 | -50.01 | -41.85 | 0.05 | | |
| 6.3 | 9.89 | 681.35 | 678.40 | 676.08 | -0.57 | -0.65 | -0.96 | -13.94 | -50.09 | -41.97 | 0.05 | | |
| 6.5 | 9.86 | 683.83 | 680.87 | 678.55 | -0.58 | -0.67 | -0.98 | -14.03 | -50.30 | -41.64 | 0.05 | | |
| 6.8 | 9.83 | 686.30 | 683.34 | 681.02 | -0.60 | -0.68 | -1.00 | -14.10 | -50.15 | -41.33 | 0.05 | | |
| 7.0 | 9.83 | 688.77 | 685.79 | 683.48 | -0.61 | -0.70 | -1.01 | -14.11 | -50.88 | -40.99 | 0.06 | | |

