

Voltage Controlled Oscillator

ROS-2750+

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 | 33.34 | 2300.3 | 2294.4 | 2289.6 | 4.30 | 3.55 | 2.89 | -16.9 | -23.2 | -47.5 | 0.50 | 1 | -78 |
| 0.5 | 31.05 | 2316.4 | 2311.1 | 2306.7 | 4.55 | 3.76 | 3.08 | -17.3 | -25.3 | -45.7 | 0.38 | 10 | -105 |
| 1.0 | 30.67 | 2331.8 | 2326.6 | 2322.3 | 4.56 | 3.83 | 3.18 | -18.2 | -27.2 | -45.1 | 0.35 | 100 | -127 |
| 2.0 | 31.10 | 2362.9 | 2357.3 | 2352.8 | 4.33 | 3.84 | 3.30 | -19.4 | -31.5 | -43.7 | 0.29 | 1000 | -146 |
| 2.5 | 31.67 | 2378.7 | 2372.9 | 2368.2 | 4.36 | 3.92 | 3.37 | -20.0 | -33.3 | -43.5 | 0.26 | | |
| 3.0 | 32.56 | 2394.8 | 2388.7 | 2383.9 | 4.45 | 4.06 | 3.51 | -20.5 | -35.1 | -42.9 | 0.24 | | |
| 4.0 | 34.21 | 2428.2 | 2421.7 | 2416.5 | 4.66 | 4.29 | 3.75 | -20.9 | -39.2 | -44.2 | 0.19 | | |
| 5.0 | 35.93 | 2463.4 | 2456.3 | 2450.8 | 4.99 | 4.61 | 4.02 | -21.5 | -42.6 | -43.3 | 0.14 | | |
| 6.0 | 37.56 | 2500.3 | 2492.7 | 2486.7 | 5.37 | 4.98 | 4.34 | -21.3 | -46.4 | -41.0 | 0.10 | | |
| 7.0 | 38.43 | 2538.6 | 2530.5 | 2524.2 | 5.78 | 5.36 | 4.69 | -21.9 | -48.9 | -40.2 | 0.05 | | |
| 7.5 | 39.08 | 2558.1 | 2549.7 | 2543.2 | 6.06 | 5.61 | 4.89 | -21.7 | -49.1 | -41.0 | 0.03 | | |
| 8.0 | 39.95 | 2578.0 | 2569.3 | 2562.6 | 6.29 | 5.86 | 5.13 | -21.9 | -48.2 | -41.8 | 0.00 | | |
| 9.0 | 40.34 | 2618.4 | 2609.4 | 2602.4 | 6.71 | 6.22 | 5.42 | -22.7 | -45.7 | -41.8 | -0.08 | | |
| 10.0 | 41.02 | 2659.2 | 2649.8 | 2642.8 | 7.11 | 6.57 | 5.70 | -23.9 | -42.1 | -40.5 | -0.16 | | |
| 11.0 | 41.50 | 2700.6 | 2691.1 | 2684.0 | 7.41 | 6.80 | 5.89 | -24.6 | -38.4 | -40.6 | -0.24 | | |
| 12.0 | 40.26 | 2742.0 | 2732.4 | 2725.3 | 7.67 | 7.06 | 6.19 | -25.9 | -40.2 | -42.5 | -0.20 | | |
| 12.5 | 39.00 | 2762.3 | 2752.5 | 2745.3 | 7.81 | 7.20 | 6.39 | -24.7 | -41.8 | -42.5 | -0.15 | | |
| 13.0 | 38.14 | 2781.7 | 2772.0 | 2764.9 | 7.95 | 7.35 | 6.55 | -25.4 | -44.1 | -41.5 | -0.09 | | |
| 14.0 | 36.52 | 2819.6 | 2810.0 | 2802.9 | 8.09 | 7.48 | 6.70 | -25.7 | -49.6 | -42.1 | 0.14 | | |
| 14.5 | 34.32 | 2837.6 | 2828.2 | 2821.3 | 8.08 | 7.51 | 6.71 | -25.6 | -51.4 | -42.2 | 0.32 | | |
| 15.0 | 32.49 | 2854.7 | 2845.4 | 2838.7 | 8.07 | 7.51 | 6.75 | -26.7 | -53.8 | -43.4 | 0.55 | | |
| 16.0 | 30.49 | 2886.4 | 2876.9 | 2869.9 | 7.94 | 7.47 | 6.72 | -26.8 | -66.7 | -47.2 | 1.00 | | |