## Phase Locked Oscillator, External Reference

## 8520 Series - . 75 GHz to 6.0 GHz <br> 8530 Series - 6.0 GHz to 18.0 GHz

## TECHNICAL FEATURE

## FEATURES

- Low Noise, Dielectric Resonator Oscillator (DRO) or Coaxial Resonator Oscillator (CRO)
- Analog phase-locked loop using a high performance sampling phase detector
- Internal voltage regulator
- High stability, low noise crystal reference oscillator
- Commercial designs for low cost applications

| Frequency Coverage | . 75 GHz to 18.0 GHz |  |
| :---: | :---: | :---: |
| Power Output | +10 dBm nominal |  |
| Harmonics | -25 dBc , maximum |  |
| Spurious | -70 dBc , maximum |  |
| Frequency Stability | $\pm 15$ ppm |  |
| Frequency Accuracty | $\pm 1 \mathrm{ppm}$ |  |
| Phase Noise @ 12 GHz (SSB) | Offset | $\mathrm{dBc} / \mathrm{Hz}$ |
|  | 100 Hz | -50 |
|  | 1 KHz | -80 |
|  | 10 KHz | -105 |
|  | 100 KHz | -105 |
|  | 1 MHz | -133 |
| Mechanical Tuning Range | N/A |  |
| Lock Alarm | TTL or Open Collector |  |
| DC Power | +15 Volts @ 450 mA (max) |  |
| Modulation Bandwidth | DC to 20 |  |
| Temperature Range | $-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ |  |
| RF Connectors | SMA Female |  |
| Dimensions | 8520 Series: $2.75^{\prime \prime} \times 2.75^{\prime \prime} \times 1.50^{\prime \prime}$8530 Series: $2.25^{\prime \prime} \times 2.25^{\prime \prime} \times 1.25^{\prime \prime}$ |  |

*Improved performance available - consult your factory representative.
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