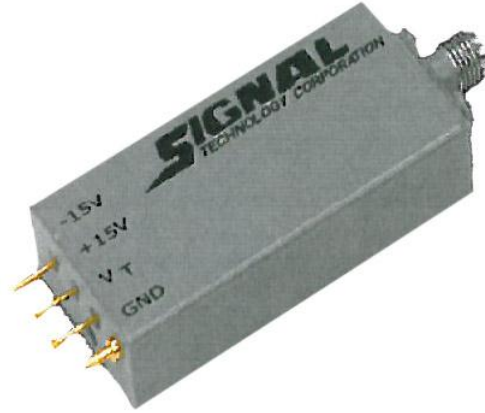


VOLTAGE CONTROLLED OSCILLATOR 7320 SERIES

TECHNICAL FEATURE

FEATURES

- Broadband, voltage tuning
- Low post-tuning drift (PTD)
- Low FM noise
- Wideband FM Modulation
- Output buffer amplifier and filter
- Internal voltage regulation
- Hermetically sealed



| | | | | | | | |
|--|--------------------|---------|-----------|--------------------|------------|----------|--------------------|
| Frequency Range (Note 1) | 0.8 to 3.0 | 2 to 5 | 4 to 8 | 6 to 11 | 10 to 15 | 13 to 20 | GHz |
| Tuning Bandwidth | 52 | 51 | 48 | 35 | 29 | 26 | %, max. |
| Power Output | +13 | | | | | | dBm, nom. |
| Post Tuning Drift (1 μ S to 10 S) | ± 1 | ± 2 | | ± 3 | | ± 4 | MHz, max. |
| Harmonics | -30 | | | -25 | | | dBc, max. |
| Phase Noise (SSB) @ 100 kHz offset | -95 | -90 | -85 | -80 | -80 | -75 | dBc/Hz, typ. |
| Bias Pushing | 200 | | | | | | kHz/V, max. |
| Load Pulling (2.0:1 VSWR) | ± 2.5 | | ± 10 | ± 15 | ± 10 | | MHz max. |
| Tuning Voltage Range (Note 2) | -10 +10 | | | | | | V min. V max. |
| DC Power +15V -15V | 100 50 | | 125 50 | | 175 100 | | mA typ. mA typ. |
| Modulation Bandwidth | DC to 20 | | | | | | MHz |
| Temperature Range | -54 to +85 | | | | | | $^{\circ}$ C |
| RF Connectors | SMA Female | | | | | | |
| DC and Tuning | Solder Pin | | | | | | |
| Dimensions | 1.00 x 2.05 x 0.43 | | | 1.00 x 1.90 x 0.43 | | | Inches |

Note1; The bandwidth of a VCO within a given Frequency Range is limited to the maximum percentage Tuning Bandwidth indicated for each Frequency Range.

Note 2: Most VCOs will tune the required Frequency Range between -6 V and +8 V. Applying a Tuning Voltage 1 V more negative than the most negative value identified with the delivery of each VCO may cause permanent damage to the VCO. Applying a Tuning Voltage more negative than -1 prior to the application of the negative supply voltage may cause permanent damage to the VCO.

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