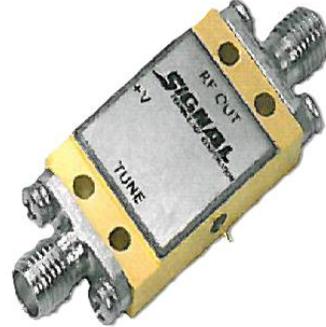


VOLTAGE CONTROLLED OSCILLATOR 7312 SERIES

TECHNICAL FEATURE

FEATURES

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



Frequency Range (Note 1)	4.0 to 9.5	GHz
Tuning Bandwidth	50	%, max.
Power Output	+10	dBm, nom.
Post Tuning Drift (1 μ S to 10 S)	\pm 3.0	MHz, max.
Harmonics	-15	dBc, max.
Phase Noise (SSB) @ 100 kHz offset	-85	dBc/Hz, typ.
Bias Pushing	1.4	kHz/V, max.
Load Pulling (1.5:1 VSWR)	\pm 20	MHz max.
Tuning Voltage Range (Note 2)	-10 +10	V min. V max.
Tuning Linearity	3:1	MHz, max.
DC Power: +12 V	100	mA typ.
Frequency Stability	\pm 15	
Temperature Range	-54 to +85	$^{\circ}$ C
RF and Tuning Connectors DC Connector	Removable SMA Female Solder Pin	
Dimensions	0.65 x 1.05 x 0.25	Inches

Note 1: The bandwidth of a VCO within the Frequency Range is limited to the maximum percentage Tuning Bandwidth indicated.

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 -1V prior to the application of the negative supply voltage may cause permanent damage to the VCO.

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