

Voltage Controlled Oscillator

Model HV57T-4

Model HV57SM-42

RF Band

0.8 to 1.6 GHz

Electrical Specifications: ⁽¹⁾

Parameter	Specifications
Frequency Range	0.8 to 1.6 GHz
Power Output at 25°C (50 Ohm load)	+10 dBm, min. +13 dBm typical
Power Output Variation vs. Temperature	2.0 dB, typical
Frequency Drift vs. Temperature ⁽²⁾	45 MHz, typical
Frequency Pulling (12 dB Return Loss)	15 MHz, typical 2.0
Frequency Pushing	MHz/V, typical 0 to
Tuning Voltage Limits	+20 VDC
SSB Phase Noise (50 kHz offset)	-107 dBc/Hz, typical
Harmonics ⁽³⁾	-14 dBc, typical
Spurious	-70 dBc, max.
Bias Voltage ⁽⁴⁾	+15 VDC ±1%
Bias Current ⁽⁵⁾	70 mA, typical
Operating Temperature	-55 to +85°C

Notes:

- Specifications guaranteed over the operating temperature range. Those specifications indicated as typical are not guaranteed. Plots exemplify typical performance at +25°C
- Total frequency drift over the full temperature range.
- Worst case harmonics over the frequency range.
- Alternate bias voltages available.
- Lower bias current available.
- Military screening available.

Typical Performance at 25°C

