

Voltage Controlled Oscillator

Microwave Band

Model V111T-1
Model V111SM-12
 9.0 to 10.0 GHz

Electrical Specifications ⁽¹⁾:

Parameter	Specifications
Frequency Range	9.0 to 10.0 GHz
Power Output at 25°C (50 Ohm load)	+7.0 dBm, min.
Power Output Variation vs. Temperature	1.4 dB, typical
Frequency Drift vs. Temperature ⁽²⁾	120 MHz, typical
Frequency Pulling (12 dB Return Loss)	45 MHz, typical
Frequency Pushing	22 MHz/V, typical
Tuning Voltage Limits	0 to +15 VDC
SSB Phase Noise (10 kHz offset)	-60 dB/Hz, typical
SSB Phase Noise (100 kHz offset)	-87 dB/Hz, typical
Harmonics ⁽³⁾	-14 dBc, typical
Spurious	-70 dBc, max.
Bias Voltage ⁽⁴⁾	+15 VDC $\pm 1\%$
Bias Current ⁽⁵⁾	50 mA, typical
Operating Temperature	-30 to +70 °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 voltage available.
- Lower bias current available
- Other package available see page 4-39
- Military screening available.

Typical Performance at 25°C

