Voltage Controlled Oscillator

Model V111T-1 Model V111SM-12

Microwave Band

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 ±1%
Bias Current ⁽⁵⁾	50 mA, typical
Operating Temperature	-30 to +70 °C

Notes:

1. Specifications guaranteed over the operating temperature range. Those specifications indicated as typical are not

guaranteed. Plots exemplify typical performance at +25°C 2 Total frequency drift over the full temperature range

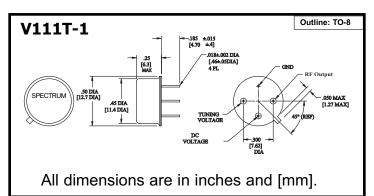
Total frequency drift over the full temperature range.
Worst case harmonics over the frequency range.

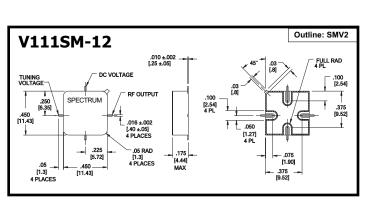
Worst case narmonics over the frequency ran
Alternate bias voltage available.

5. Lower bias current available

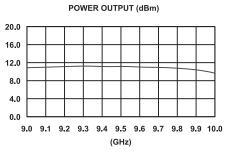
Other package available see page 4-39

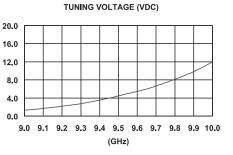
7. Military screening available.



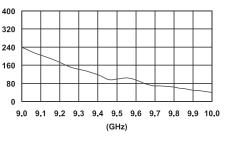


Typical Performance at 25°C





MODULATION SENSITIVITY (MHz/V)





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