Voltage Controlled Oscillator
Optical Clock Recovery

Model HVA121T-1
Model HVA121SM-12
9.958 GHz

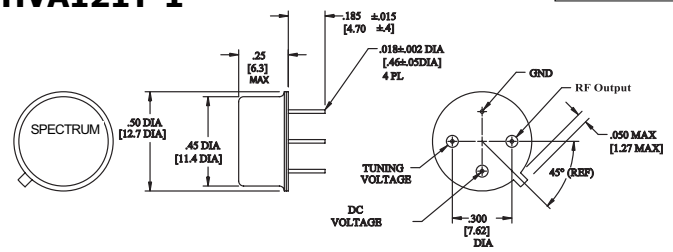
Electrical Specifications [1]:

Parameter	Specifications
Frequency Range	9.958 GHz
Power Output at 25°C (50 Ohm load)	10 dBm min.
Power Output Variation vs. Temperature	1.6 dB, typical
Frequency Drift vs. Temperature[2]	105 MHz, typical
Frequency Pulling (12 dB Return Loss)	15 MHz, typical
Frequency Pushing	1 MHz/V, typical
Tuning Voltage Limits	+3 to +7 VDC
SSB Phase Noise (50 kHz offset)	-80 dBc/Hz, typical
Harmonics[3]	-14 dBc, typical
Spurious	-60 dBc, max.
Bias Voltage[4]	+15 VDC ±1%
Bias Current[5]	100 mA, typical
Operating Temperature	0 to +85 °C

Notes:
1. Specifications guaranteed over the operating temperature range. Those specifications indicated as typical are not guaranteed.
2. Total frequency drift over the full temperature range.
3. Worst case harmonics over the frequency range.
4. Alternate bias voltages available.
5. Lower bias current available.
6. Other package available see page 4-39
7. Military screening available.

HVA121T-1

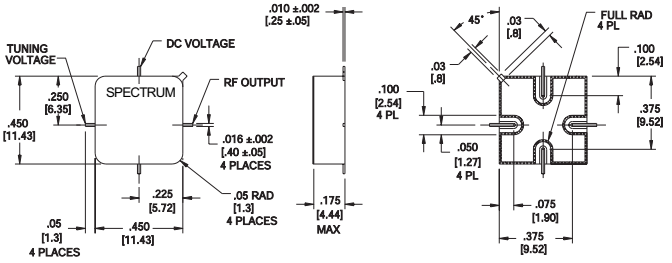
Outline: TO-8



All dimensions are in inches and [mm].

HVA121SM-12

Outline: SMV2



Typical Performance at 25°C