

# Voltage Controlled Oscillator Model HVA121T-1

# Model HVA121SM-12

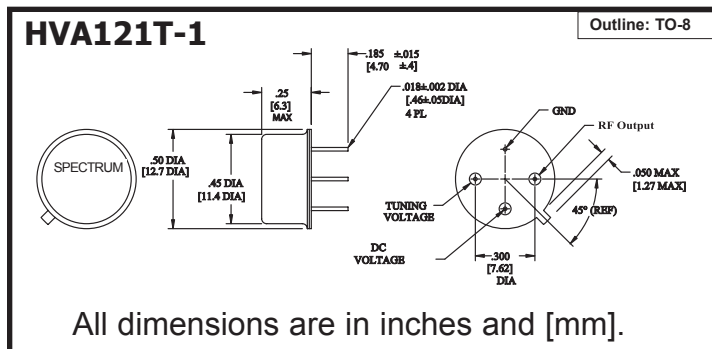
## Optical Clock Recovery 9.958 GHz

### Electrical Specifications:<sup>(1)</sup>

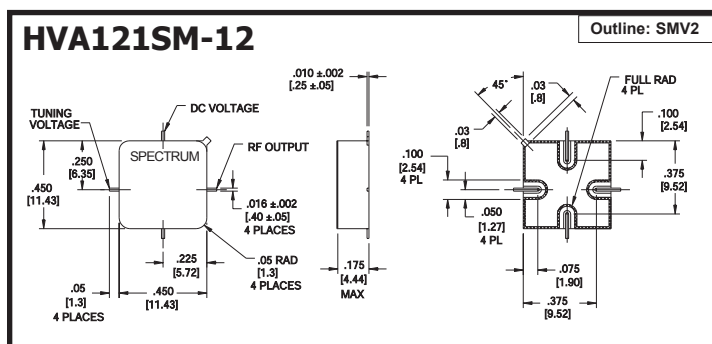
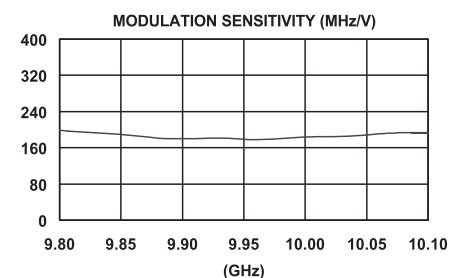
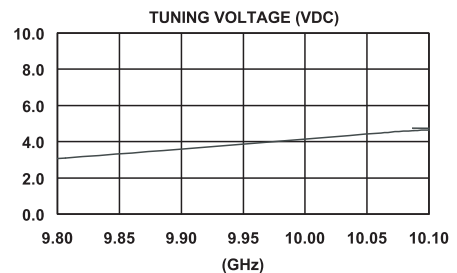
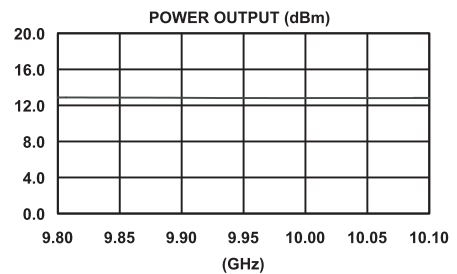
Parameter	Specifications
Frequency Range	9.958 GHz
Power Output at 25°C (50 Ohm load)	10 dBm min.
Power Output Variation vs. Temperature	1.6 dB, typical
Frequency Drift vs. Temperature <sup>(2)</sup>	105 MHz, typical
Frequency Pulling (12 dB Return Loss)	15 MHz, typical
Frequency Pushing	1 MHz/V, typical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

#### Notes:

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



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