

# Voltage Controlled Oscillator

## Model HV54T-1

## Model HV54SM-12

RF Band 0.95 to 1.35 GHz

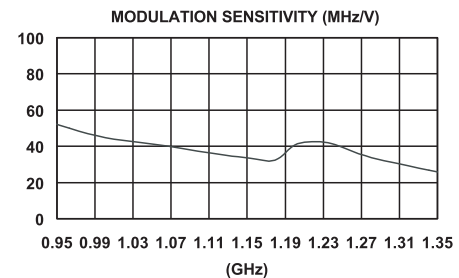
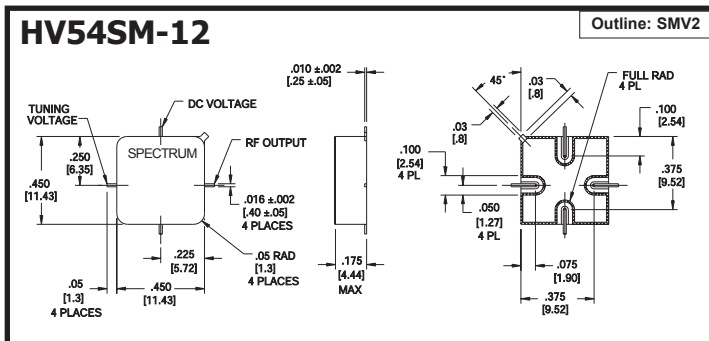
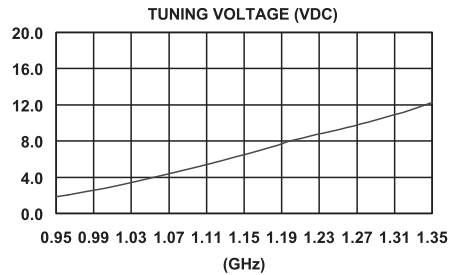
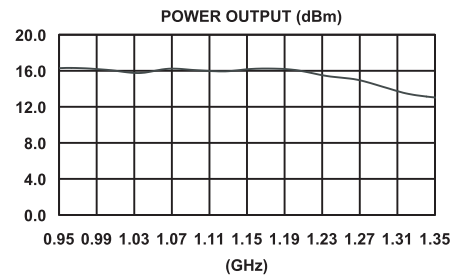
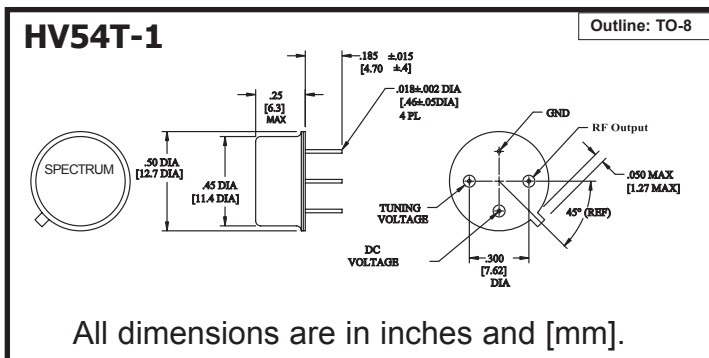
### Electrical Specifications: <sup>(1)</sup>

Parameter	Specifications
Frequency Range	0.95 to 1.35 GHz
Power Output at 25°C (50 Ohm load)	+10 dBm, min.
Power Output Variation vs. Temperature	1.0 dB, typical
Frequency Drift vs. Temperature <sup>(2)</sup>	30 MHz, typical
Frequency Pulling (12 dB Return Loss)	6.0 MHz, typical
Frequency Pushing	2.0 MHz/V, typical
Tuning Voltage Limits	0 to +15 VDC
SSB Phase Noise (50 kHz offset)	-107 dBc/Hz, typical
Harmonics <sup>(3)</sup>	-14 dBc, typical
Spurious	-70 dBc, max.
Bias Voltage <sup>(4)</sup>	+15 VDC ±1%
Bias Current <sup>(5)</sup>	30 mA, typical
Operating Temperature	-55 to +100 °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



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