

# Voltage Controlled Oscillator

# Model HV37T-11 Model HV37SM-112

RF Band

200 to 400 MHz

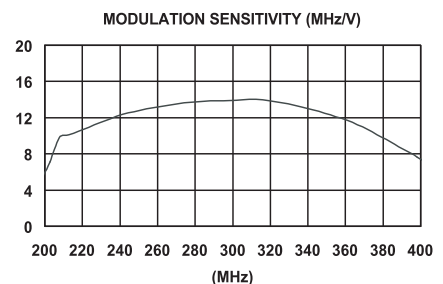
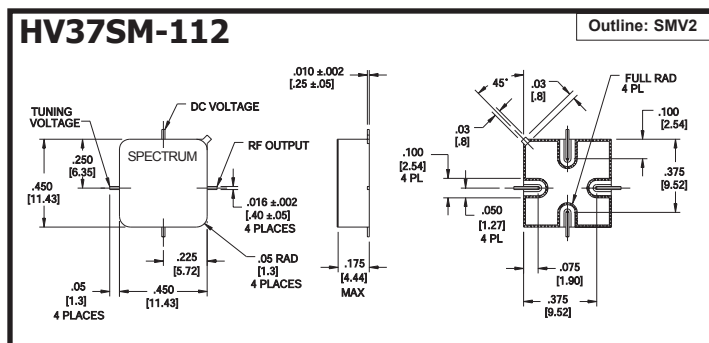
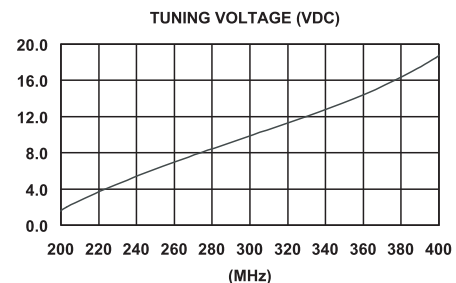
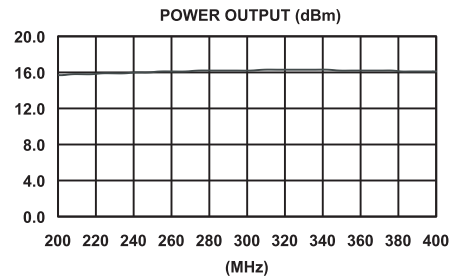
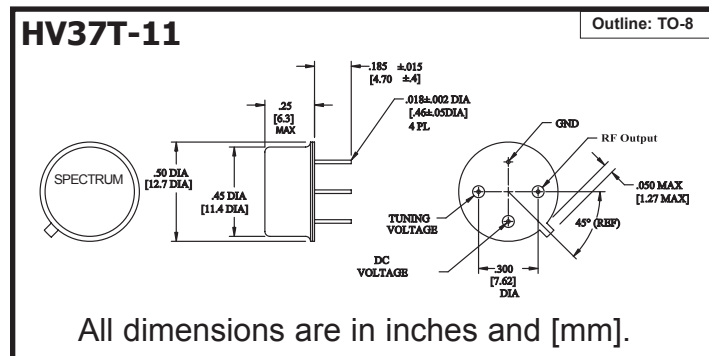
## Electrical Specifications: <sup>(1)</sup>

| Parameter                                      |                      |
|--|----------------------|
| Frequency Range                                | 200 to 400 MHz       |
| 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> | 15 MHz, typical      |
| Frequency Pulling (12 dB Return Loss)          | 6.0 MHz, typical     |
| Frequency Pushing                              | 1.0 MHz/V, typical   |
| Tuning Voltage Limits                          | 0 to +20 VDC         |
| SSB Phase Noise (50 kHz offset)                | -123 dBc/Hz, typical |
| Harmonics <sup>(3)</sup>                       | -12 dBc, typical     |
| Spurious                                       | -70 dBc, max.        |
| Bias Voltage <sup>(4)</sup>                    | +15 VDC ±1%          |
| Bias Current <sup>(5)</sup>                    | 15 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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