

# Voltage Controlled Oscillator

## Model HV71T-14

## Model HV71SM-142

### Optical Clock Recovery

### 2.666 GHz

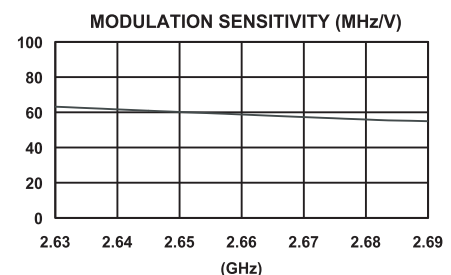
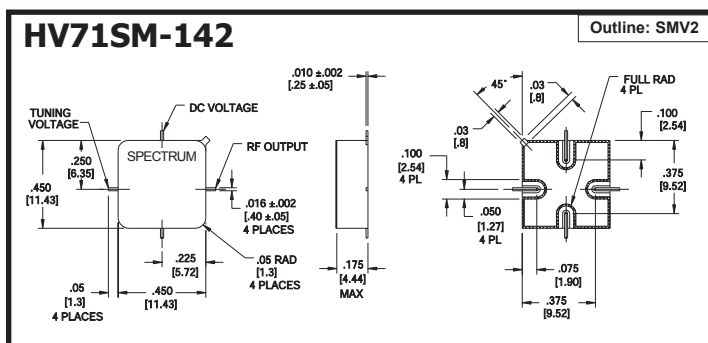
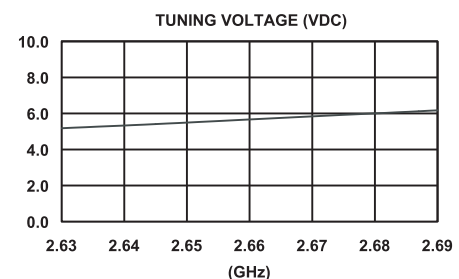
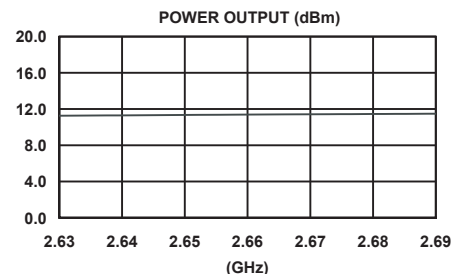
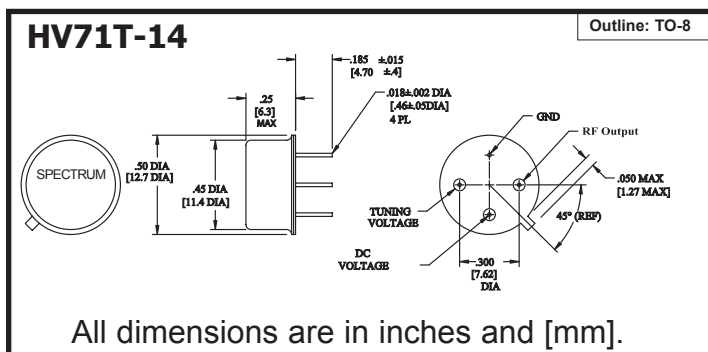
#### Electrical Specifications: <sup>(1)</sup>

| Parameter                                      | Specifications      |
|------------------------------------------------|---------------------|
| Frequency Range                                | 2.666 GHz           |
| Power Output at 25°C (50 Ohm load)             | +10.0 dBm, min.     |
| Power Output Variation vs. Temperature         | 2.0 dB, typical     |
| Frequency Drift vs. Temperature <sup>(2)</sup> | 150 MHz, typical    |
| Frequency Pulling (12 dB Return Loss)          | 25 MHz, typical     |
| Frequency Pushing                              | 8 MHz/V, typical    |
| Tuning Voltage Limits                          | +4 to +8 VDC        |
| SSB Phase Noise (50 kHz offset)                | -87 dBc/Hz, typical |
| Harmonics <sup>(3)</sup>                       | -20 dBc, typical    |
| Spurious                                       | -70 dBc, max.       |
| Bias Voltage <sup>(4)</sup>                    | +15 VDC $\pm 1\%$   |
| Bias Current <sup>(5)</sup>                    | 75 mA, typical      |
| Operating Temperature                          | -30 to +65 °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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