

Available as:

Model # HVA103T-1 (TO-8)

Model # HVA103SM-12 (.450" Square)

Model # HVA103P-1 (SMA Connectorized Housing)

Voltage Controlled Oscillator (VCO)

Frequency Range 5.5 to 7.0 GHz

Features

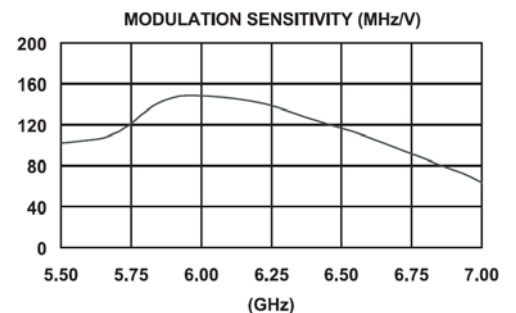
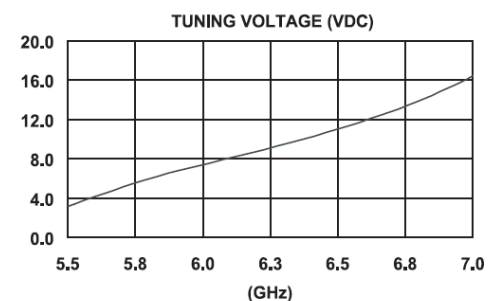
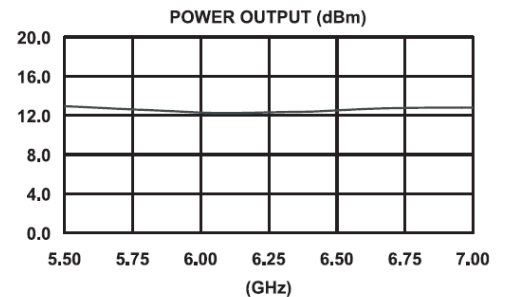
- Superior Phase Noise Performance
- Multiple Packaging Options
- Environmental Screening Available

Technical Specifications ⁽¹⁾

Parameter	Specifications
Frequency Range	5.5 to 7.0 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 ⁽²⁾	140 MHz, typical
Frequency Pulling (12 dB Return Loss)	30 MHz, typical
Frequency Pushing	8 MHz/V, typical
Tuning Voltage Limits	0 to +20 VDC
SSB Phase Noise (50 kHz offset)	-87 dBc/Hz, typical
Harmonics ⁽³⁾	-14 dBc, typical
Spurious	-70 dBc, max.
Bias Voltage ⁽⁴⁾	+15 VDC ±1%
Bias Current ⁽⁵⁾	75 mA, typical
Operating Temperature	-30 to +65 °C

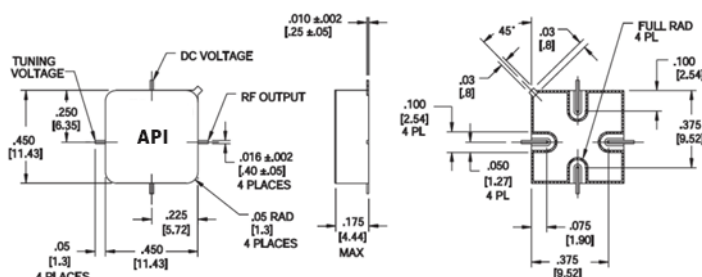
- Notes:
1. Specifications guaranteed over the operating temperature range. Those specifications indicated as typical are not guaranteed. Plots exemplify typical performance at +25°C
 2. Total frequency drift over the full temperature range.
 3. Worst case harmonics to 26 GHz.
 4. Alternate bias voltages available.
 5. Lower bias current available.
 6. Military screening available.

Typical Performance at 25°C

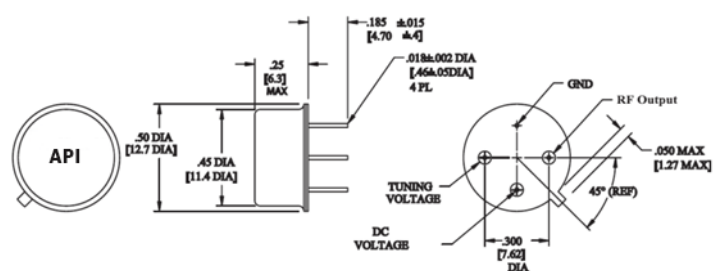


Outline Drawings*

HVA103SM-12 (Outline SMV2)



HVA103T-1 (Outline TO-8)



*All dimensions are in inches and [mm].