

VOLTAGE CONTROLLED OSCILLATOR

TOM9339
3900-4100 MHz

Available as:

- TOM9339, 4 Pin TO-8 (T4)
- TON9339, 4 Pin Surface Mount (SM3)
- BXO9339, Connectorized Housing (H1)

Features

- Low Noise Bipolar Transistor
- Broad Tuning Range
- Operating Case Temp. -55 °C to + 85 °C
- Environmental Screening Available

Specifications

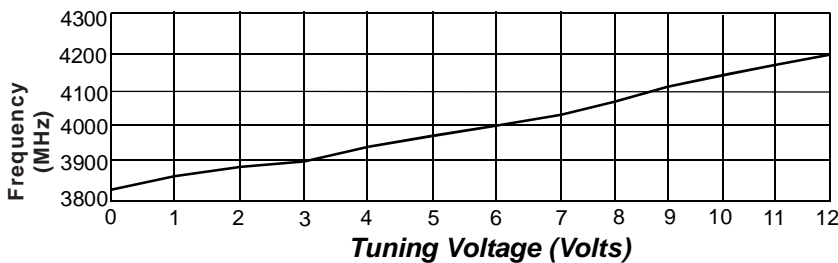
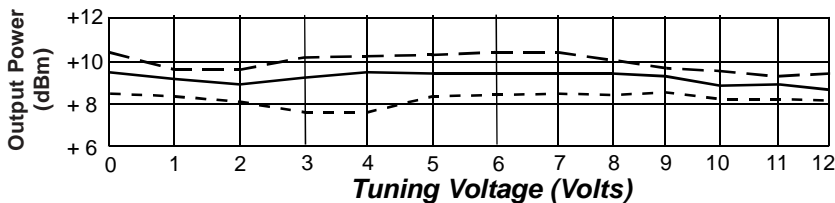
CHARACTERISTIC	TYPICAL Ta = +25 °C	MIN/MAX Ta = -55°C to +85 °C
Frequency	3900 - 4100 MHz	3900 - 4100 MHz
Output Power (dBm)	+9.5	+8.0 Min.
Power Flatness (dBm)	+/-0.25	+/-0.5 Max.
Tuning Voltage Range (V)	2.0 to 10.0	0.0 to 12.0
Tuning Voltage Sensitivity (MHz/V)	35.0	20.0 Min.
Harmonics (dBc)	-16.0	-12.0 Max.
Spurious (dBc)	<-80	<-60
3dB Modulation BW, Zg = 50 Ohms	----	20 MHz Max.
Pushing (MHz/V)	2.0	6.0 Max.
Pulling (MHz); 14 dB RL	14.0	20.0 Max.
Frequency Drift (MHz/°C)	0.10	0.15 Max.
Power	Vdc mA	+12 25.0

Maximum Ratings

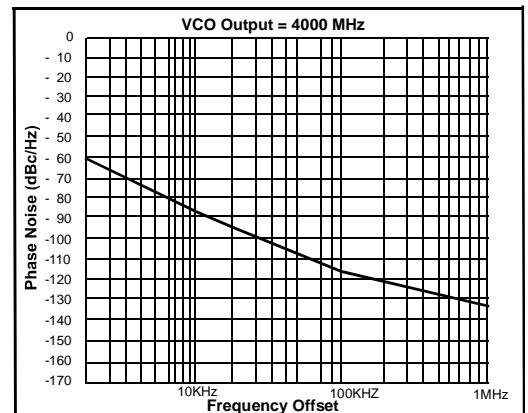
- Ambient Operating Temperature -55°C to + 85 °C
- Storage Temperature -62°C to + 125 °C
- Case Temperature + 125 °C
- DC Voltage + 20 Volts
- Maximum DC Tuning Voltage + 20 Volts
- Minimum DC Tuning Voltage 0 Volts

Note: Care should always be taken to effectively ground the case of each unit.

Typical Performance Data



Legend ——— + 25 °C - - - - +85 °C ······ -55 °C



Notes:

- 1- Phase Noise is measured using the Aeroflex PN9000.
- 2- Worst case phase noise @ 100KHz offset across frequency range and temperature extremes is -95 dBc/Hz

