

# 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

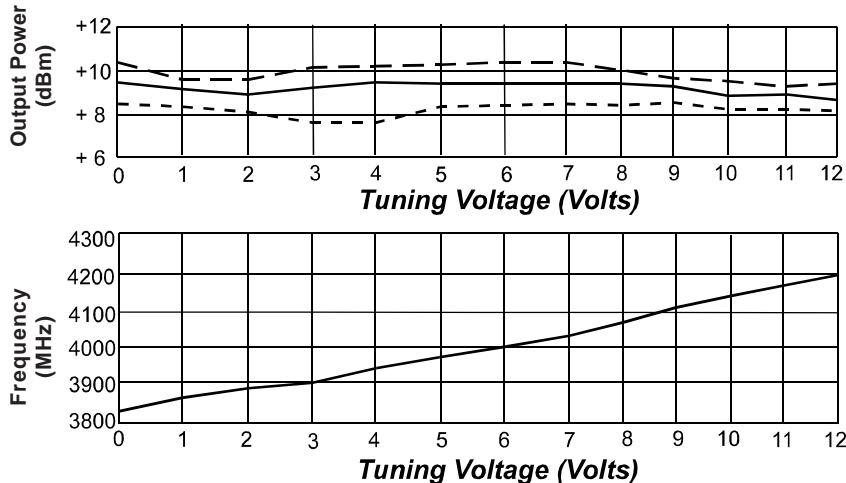
CHARACTERISTIC	TYPICAL Ta = +25 °C	MIN/MAX Ta = -55°C to +85 °C
Frequency	3900 - 4100 MHz	3900 - 4100 MHz
Phase Noise (dBc/Hz) (@100 kHz offset)	-100	-95 Max.
Output Power (dBm)	+9.5	+8.0 Min.
Power Flatness (dBm)	+/-0.25	+/-0.5 Max.
Tuning Voltage Range (V)	2.0 to 10.0	0.0 to 12.0
Tuning Voltage Sensitivity (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	+12
	m A	21.0

### Maximum Ratings

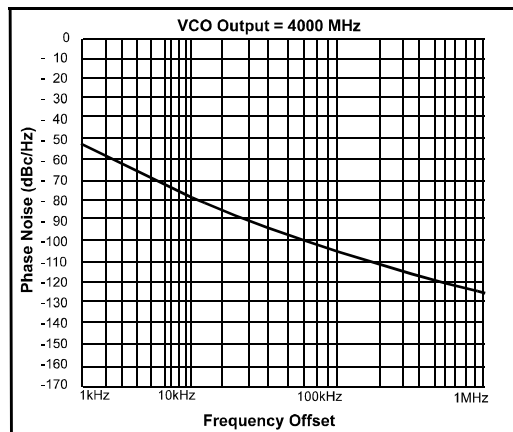
Ambient Operating Temperature ..... -55°C to + 85 °C  
 Storage Temperature ..... -62°C to + 125 °C  
 Case Temperature ..... + 125 °C  
 DC Voltage ..... + 20 Volts  
 Maximum DC Tuning Voltage ..... + 20 Volts  
 Minimum DC Tuning Voltage ..... 0 Volts

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

### Typical Performance Data



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



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532

Rev. 9/18/08

www.SpectrumMicrowave.com Spectrum Microwave · 2707 Black Lake Place · Philadelphia, Pennsylvania 19154 · PH (215) 464-4000 · Fax (215) 464-4001