

VOLTAGE CONTROLLED OSCILLATOR

TOM9250
2000 - 2500 MHz

Available as:

- TOM9250, 4 Pin TO-8 (T4)
- TON9250, 4 Pin Surface Mount (SM3)
- TOP9250, 4 Pin Flatpack (FP4)
- BXO9250, Connectorized Housing (H1)

Features

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

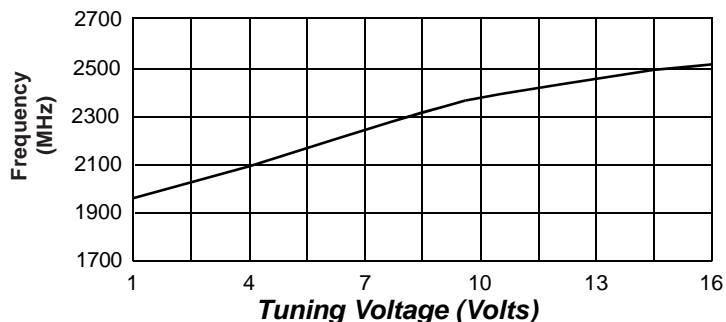
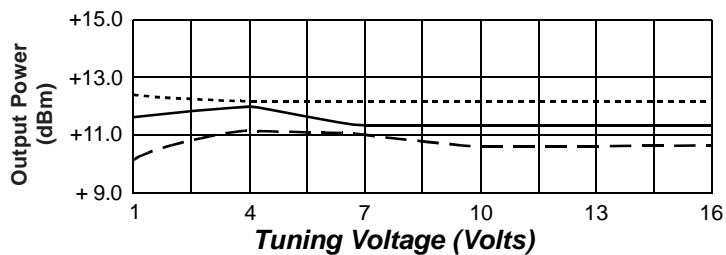
Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to + 85 °C
5Frequency	2000 - 2500 MHz	2000 - 2500 MHz
Output Power (dBm)	+11.5	+9.0 Min.
Power Flatness (dB)	±0.75	±1.5 Max.
Tuning Voltage Range (v)	1 to 14	1 to 15
Tuning Voltage Sensitivity (MHz/V)	40	15 Min.
Harmonics (dBc)	-20	-12 Max.
Spurious (dBc)	<-80	<-60 Max.
3dB Modulation BW Zg = 50 Ohm	--	20 MHz Min.
Pushing (MHz/V)	4	9 Max.
Pulling (MHz); 20 dB RL	25	35 Max.
Frequency Drift (MHz/°C)	0.10	0.15 Max.
Power Vdc	+15	+15
mA	30	40 Max.

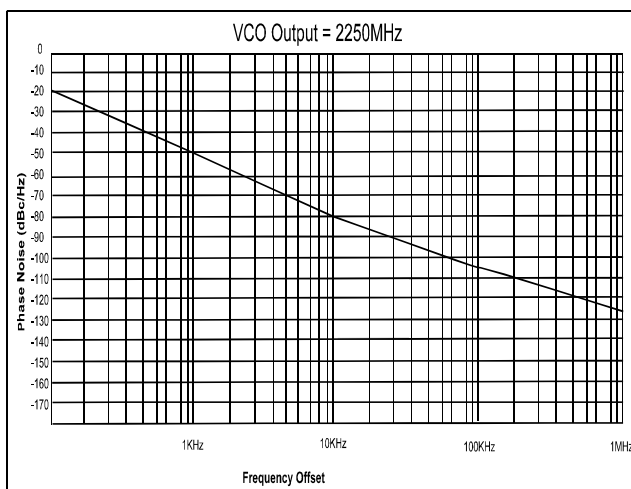
Maximum Ratings

Ambient Operating Temperature -55°C to + 100 °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 Volt

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 -100 dBc/Hz.



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

Rev. C
04/11/02

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