

# 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

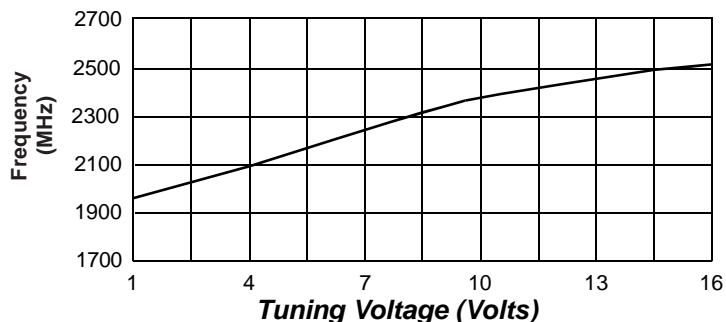
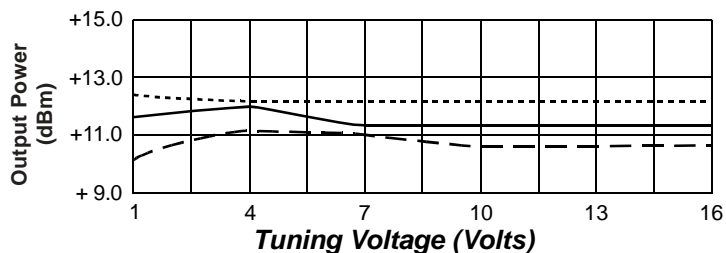
## Specifications

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.

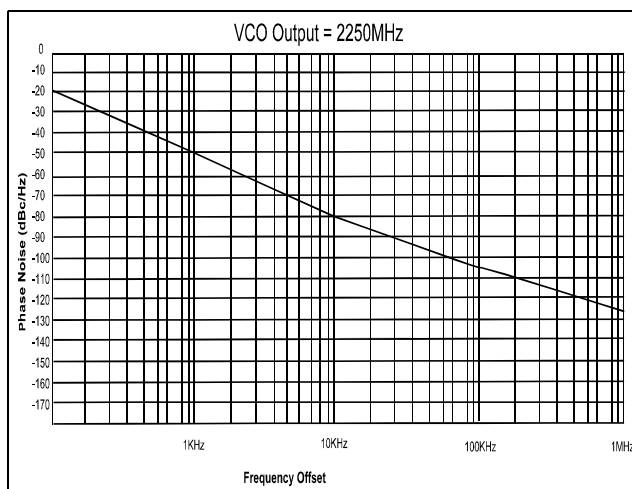
## Maximum Ratings

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.



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