

# VOLTAGE CONTROLLED OSCILLATOR

## TOM9341 2200 - 2400 MHz

### Available as:

- TOM9341, 4 Pin TO-8 (T4)
- TON9341-3, 4 Pin Surface Mount (SM3)
- TOP9341-4, 4 Pin Flatpack (FP4)
- BXO9341, Connectorized Housing (H1)

### Features

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

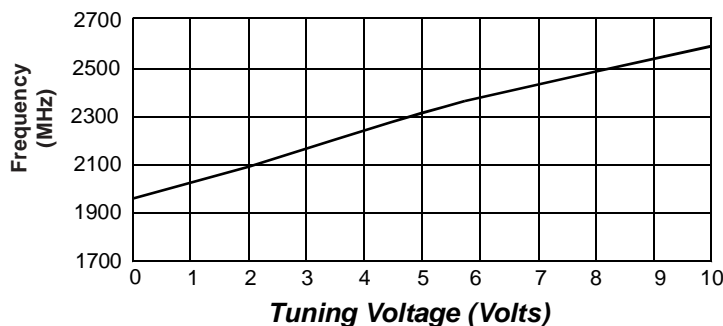
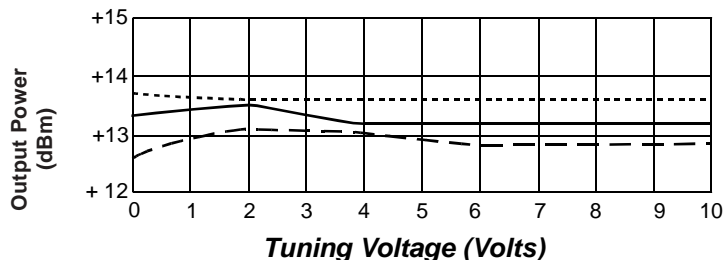
### Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	2200 - 2400 MHz	2200 - 2400 MHz
Output Power (dBm)	+13	+12 Min.
Power Flatness (dBm)	+/-0.2	+/-1.0 Max.
Tuning Voltage Range (v)	3 to 9	3 to 9
Tuning Voltage Sensitivity (MHz/V)	45	30 Min.
Harmonics (dBc)	-30	-20 Max.
Spurious (dBc)	<-80	-60 Max.
Phase Noise @ 100KHz (dBc/Hz)	-105	-100 Max.
Pushing (MHz/V)	4	8 Max.
Pulling (MHz); 20 dB RL	35	43 Max.
Frequency Drift (MHz/°C)	0.07	0.15 Max.
Power Vdc	+15	+15
m A	35	40 Max.

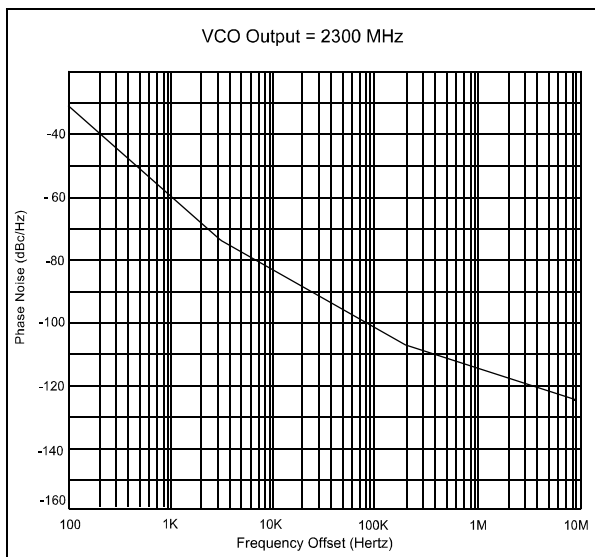
### Maximum Ratings

- 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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