

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

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

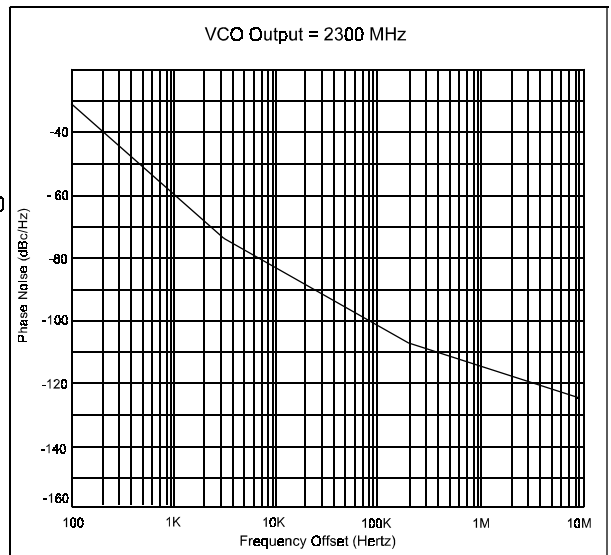
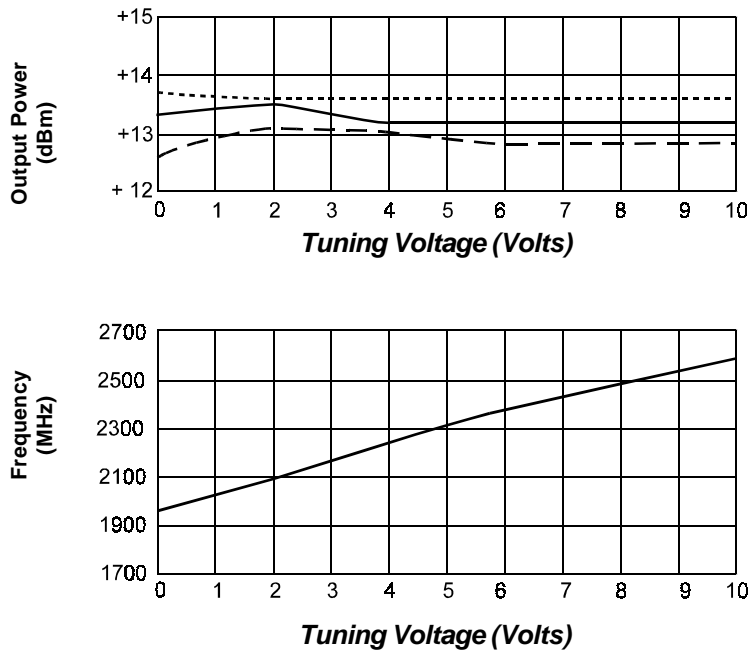
Specifications

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
mA	35	40

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



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.

