

# VOLTAGE CONTROLLED OSCILLATOR

## TOM9325 2200 - 2700 MHz

**Available as:**  
 TOM9325, 4 Pin TO-8 (T4)  
 TON9325, 4 Pin Surface Mount (SM3)  
 BXO9325, Connectorized Housing (H1)

### Features

- Tuning Variation: 2.2:1 Maximum
- Operating Case Temp. 0 °C to + 50 °C
- Screening to the tables of MIL-STD-883 available

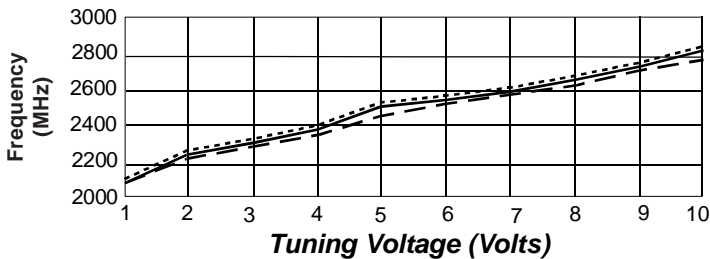
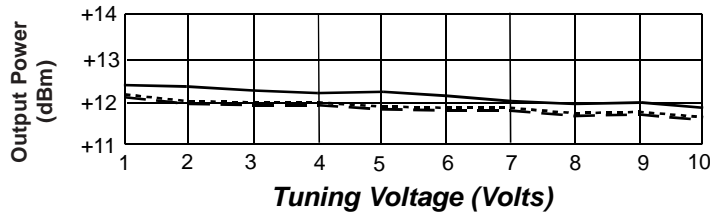
### Specifications

CHARACTERISTIC	TYPICAL Ta = +25 °C	MIN/MAX Ta = 0 °C to + 50 °C
Frequency	2200 - 2700 MHz	2200 - 2700 MHz
Output Power (dBm)	+12.0	+10.0 Min.
Power Flatness (dBm)	±0.5	±1.0 Max.
Tuning Voltage Range (V)	2 to 8	2 to 8
Tuning Voltage		
Sensitivity (MHz/V)	80.0	50.0 Min.
Harmonics (dBc)	-18	-12 Max.
Spurious (dBc)	<-50	-50 Max.
Phase Noise @10 KHz	-80	-75
@ 100 KHz (dBc/Hz)	-105	-100 Max.
Pushing (MHz/V)	3.0	7.0 Max.
Pulling (MHz); 20 dB RL	28.0	35.0 Max.
Frequency Drift (MHz/°C)	0.8	1.2 Max.
Power Vdc	+12	+12
mA	33.0	40.0 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 Volts

### Typical Performance Data



Legend ——— +25 °C - - - - +50 °C ······· 0 °C

V <sub>t</sub> (V)	f <sub>o</sub> (MHz)	Δf (MHz)	P <sub>o</sub> (dBm)	2H (dBc)	3H (dBc)
1.0	2047	237	+14.6	-24	-22
2.0	2232	185	+14.7	-28	-22
3.0	2368	135	+13.9	-22	-21
4.0	2489	121	+13.8	-23	-21
5.0	2598	109	+13.8	-22	-20
6.0	2699	100	+13.7	-21	-20
7.0	2791	91	+13.8	-22	-24
8.0	2874	83	+14.2	-22	-23
9.0	2950	75	+13.8	-23	-23
10.0	3017	66	+13.9	-23	-25

