

Voltage Controlled Oscillator

Tuning Variation: 2.2:1 Maximum

Model TOM9325

2200 to 2700 MHz

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	1.5 to 10
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 Max.
@ 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.

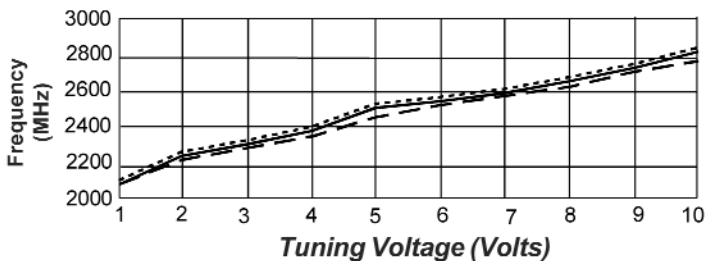
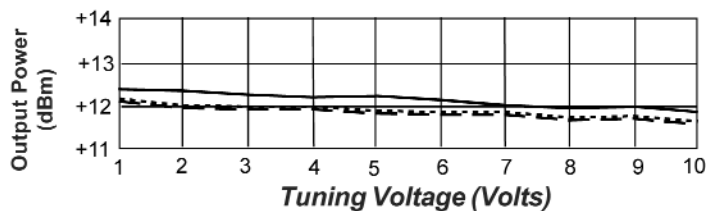
Maximum Ratings

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

Packaging Options (see Appendix)

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

Typical Performance Data



V _t (V)	f _o (MHz)	Δf (MHz)	P _o (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

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

