

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	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 @ 100 KHz (dBc/Hz)	- 80 -105	- 75 -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 mA	+12 33.0	+12 40.0 Max.

Maximum Ratings

Ambient Operating Temperature -55°C to + 100 °C

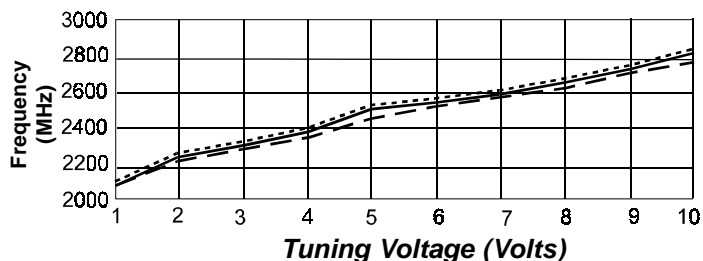
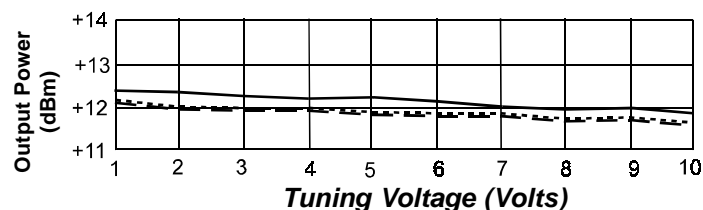
Storage Temperature -62°C to + 125 °C

Case Temperature + 125 °C

DC Voltage + 20 Volts

Maximum DC Tuning Voltage + 20 Volts

Minimum DC Tuning Voltage 0 Volts



V _t (V)	f ₀ (MHz)	Δf (MHz)	P _o (dBm)	2H (dBc)	3H (dBc)
1.5	2160.2		+12.5	-24	-44
2.0	2214.8	54.6	+12.5	-34	-41
3.0	2310.0	95.2	+12.3	-22	-46
4.0	2404.2	94.2	+12.3	-17	-39
5.0	2494.2	90.0	+12.2	-16	-36
6.0	2564.4	70.2	+12.2	-21	-37
7.0	2635.0	70.6	+12.1	-17	-35
8.0	2699.3	64.3	+12.1	-14	-35
9.0	2755.3	56.0	+12.1	-13	-33
10.0	2802.2	46.9	+12.0	-13	-33

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

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