

Voltage Controlled Oscillator

Low Tuning Voltage Sensitivity

Model TOM9326

2255 to 2280 MHz

Features

- Low Tuning Voltage Sensitivity
- 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	2255 - 2280 MHz	2255 - 2280 MHz
Output Power (dBm)	+6.0	+4.5 Min.
Power Flatness (dBm)	±0.25	±0.5 Max.
Tuning Voltage Range (V)	0.5 to 4.5	0.5 to 4.5
Tuning Voltage Sensitivity (MHz/V)	7.0	5.0 Min.
Harmonics (dBc)	-24	-20 Max.
Spurious (dBc)	<- 80	- 80 Max.
Phase Noise @ 100 KHz (dBc/Hz)	-105	-100 Max.
Pushing (MHz/V)	6.0	9.0 Max.
Pulling (MHz); 12 dB RL	30.0	40.0 Max.
Frequency Drift (MHz/°C)	0.08	0.17 Max.
Power Vdc	+5	+5
mA	20.0	23.0 Max.

Maximum Ratings

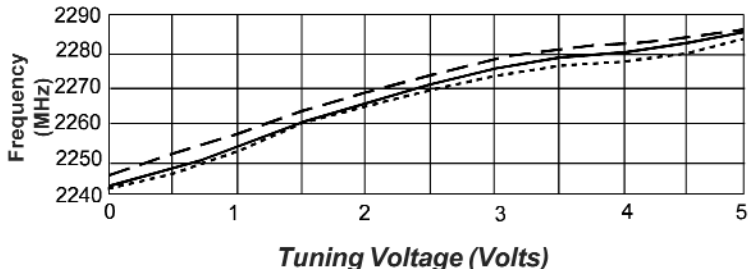
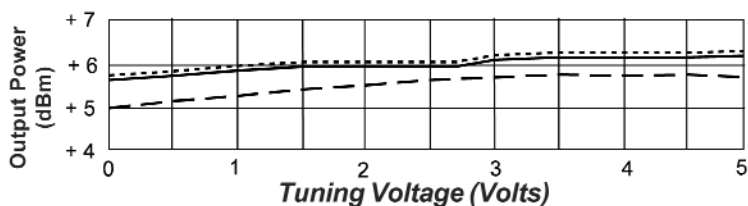
Ambient Operating Temperature -55°C to + 100 °C
 Storage Temperature -62°C to + 125 °C
 Case Temperature + 125 °C
 DC Voltage + 10 Volts
 Maximum DC Tuning Voltage + 15 Volts
 Minimum DC Tuning Voltage 0 Volts

Packaging Options (see Appendix)

TOM9326, 4 Pin TO-8 (T4)
 TON9326, 4 Pin Surface Mount (SM3)
 BXO9326, Connectorized Housing (H1)

NOTE: Care should always be taken to effectively ground the case of each unit.

Typical Performance Data



V _t (V)	f _o (MHz)	Δf (MHz)	P _o (dBm)	2H (dBc)	3H (dBc)
0.0	2241.9		+5.7	-27	-37
0.5	2250.1	16.4	+5.8	-25	-38
1.0	2256.5	12.8	+5.9	-26	-38
1.5	2261.8	10.6	+5.9	-25	-38
2.0	2266.5	9.4	+6.0	-25	-37
2.5	2270.8	8.6	+6.0	-25	-37
3.0	2274.8	8.0	+6.0	-24	-38
3.5	2278.5	7.4	+6.0	-23	-38
4.0	2281.8	6.6	+6.1	-23	-38
4.5	2285.0	6.4	+6.1	-23	-38
5.0	2288.0	6.0	+6.1	-23	-38

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

