

# VOLTAGE CONTROLLED OSCILLATOR

## TOM9326

2255-2280 MHz

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

### Features

- Low Tuning Voltage Sensitivity
- Operating Case Temp. 0 °C to + 50 °C
- Screening to the tables of MIL-STD-883 available

### Specifications

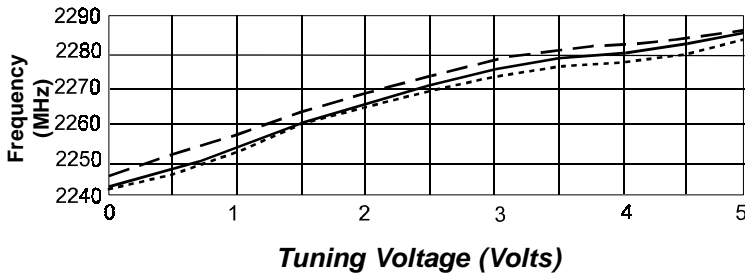
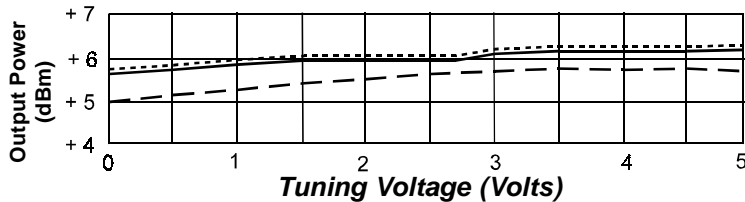
CHARACTERISTIC	TYPICAL Ta = +25 °C	MIN/MAX Ta = 0°C to +50 °C
Frequency	2255 - 2280 MHz	2255 - 2280 MHz
Output Power (dBm)	+6.0	+4.5 Min.
Power Flatness (dBm)	±0.25	±0.5 Max.
Tuning Voltage Range (V)	0.5 to 4.5	0.5 to 4.5
Tuning Voltage Sensitivity (MHz/V)	7.0	5.0 Min.
Harmonics (dBc)	-24	-20 Max.
Spurious (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

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

### Typical Performance Data



V <sub>t</sub> (V)	f <sub>o</sub> (MHz)	Δf (MHz)	P <sub>o</sub> (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



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