

Voltage Controlled Oscillator

5 Volt Operation

Model TOM9336

385 to 415 MHz

Features

- 5 Volt Operation
- Operating Case Temp. 0 °C to + 50 °C
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta = +25 °C	MIN/MAX Ta = 0°C to +50 °C
Frequency	385 - 415 MHz	385 - 415 MHz
Output Power (dBm)	+10.0	+6.0 Min.
Power Flatness (dBm)	±0.25	±0.5 Max.
Tuning Voltage Range (V)	0.0 to 5.0	0.0 to 5.0
Tuning Voltage Sensitivity (MHz/V)	10.0	5.0 Min.
Harmonics (dBc)	- 7.0	-5.0 Max.
Spurious (dBc)	<- 60	<- 60 Max.
Phase Noise @ 100 KHz (dBc/Hz)	-100	- 90 Max.
Pushing (MHz/V)	3.0	8.0 Max.
Pulling (MHz); 12 dB RL	3.0	5.0 Max.
Frequency Drift (MHz/°C)	±.04	±.10 Max.
Power Vdc	+5	+5
mA	33.0	40.0 Max.

Maximum Ratings

Ambient Operating Temperature -55°C to + 85 °C
 Storage Temperature -62°C to + 125 °C
 Case Temperature + 125 °C
 DC Voltage + 10 Volts
 Maximum DC Tuning Voltage + 10 Volts
 Minimum DC Tuning Voltage 0 Volts

Packaging Options (see Appendix)

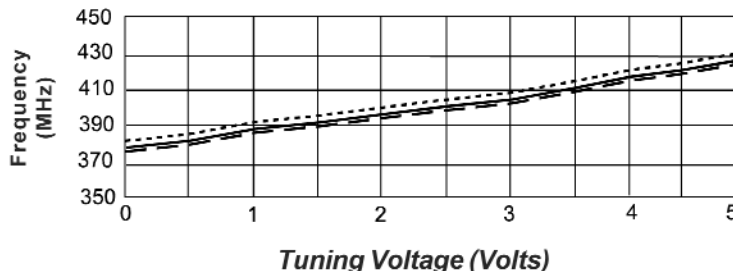
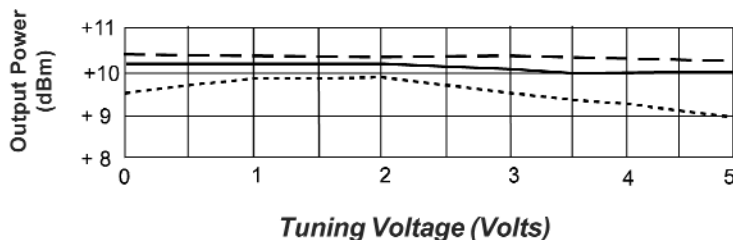
TOM9336, 4 Pin TO-8 (T4)

TON9336, 4 Pin Surface Mount (SM3)

BXO9336, 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)
0.00	376.8		+10.3	-7.6	-20.5
1.00	384.8	8.0	+10.4	-7.8	-20.3
2.00	394.8	10.0	+10.5	-7.8	-22.0
3.00	405.7	10.9	+10.3	-7.7	-25.6
4.00	416.2	10.5	+10.1	-7.3	-21.9
5.00	426.8	10.6	+10.0	-7.3	-21.2

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



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