

# VOLTAGE CONTROLLED OSCILLATOR

## TOM9340 3200-4000 MHz

Available as:  
TOM9340, 4 Pin TO-8 (T4)  
TON9340, 4 Pin Surface Mount (SM3)  
BXO9340, Connectorized Housing (H1)

### Features

- Low Noise Bipolar Transistor
- Broad Tuning Range
- Operating Case Temp. -40 °C to +85 °C
- Environmental Screening Available

### Specifications

CHARACTERISTIC	TYPICAL Ta = +25 °C	MIN/MAX Ta = -40°C to +85 °C
Frequency	3200 - 4000 MHz	3200 - 4000 MHz
Phase Noise (dBc/Hz) (@100 kHz offset)	-95	-90 Max.
Output Power (dBm)	+11.0	+8.0 Min.
Power Flatness (dBm)	+/-0.75	+/-1.5 Max.
Tuning Voltage Range (V)	1.0 to 11.0	0.0 to 12.0
Tuning Voltage Sensitivity (MHz/V)	100.0	80.0 Min.
Harmonics (dBc)	-15.0	-10.0 Max.
Spurious (dBc)	<-80	<-60
3 dB Modulation BW, Zg = 50 Ohms	----	25 MHz Max.
Pushing (MHz/V)	3.0	8.0 Max.
Pulling (MHz); 24 dB RL	20	30 Max.
Frequency Drift (MHz/°C)	0.10	0.15 Max.
Power	Vdc	+12
	mA	30
		35 Max.

### Maximum (NO DAMAGE) Ratings

Ambient Operating Temperature ..... -55°C to + 85 °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

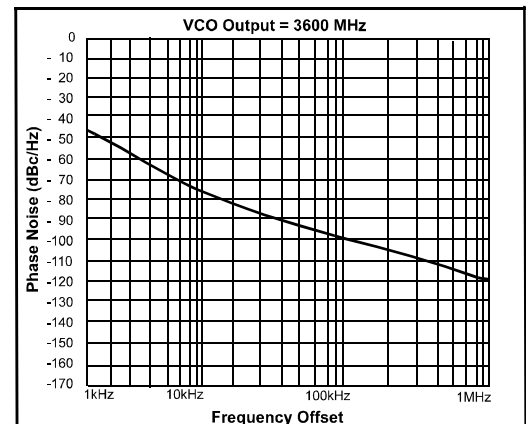
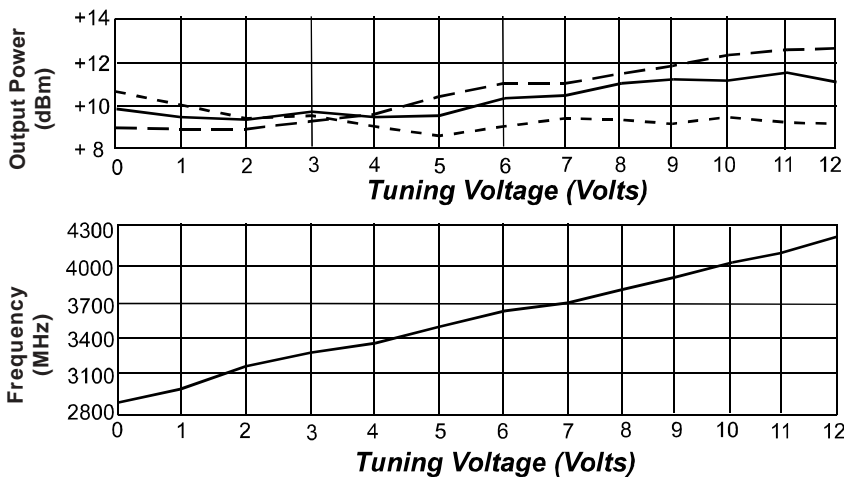
Note 1: Care should always be taken to effectively ground the case of each unit.

Note 2 : Table I Specifications regarding Tuning Sensitivity only apply to in-band operation.

ECN 12-3-2021: Increased Supply Current to 35 mA from 30 mA.

Revision 12-3-2021

### Typical Performance Data



Legend ——— +25 °C - - - - +85 °C - - - - -40 °C



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