

# VOLTAGE CONTROLLED OSCILLATOR

**TOM9052**  
600 - 900 MHz

**Available as:**

- TOM9052, 4 Pin TO-8 (T4)
- TON9052, 4 Pin Surface Mount (SM3)
- TOP9052, 4 Pin Flatpack (FP4)
- BXO9052, Connectorized Housing (H1)

**Features**

- Broad Tuning Range
- Low Noise Bipolar Transistor
- Operating Case Temp. -55 °C to + 85 °C
- Environmental Screening available

**Specifications**

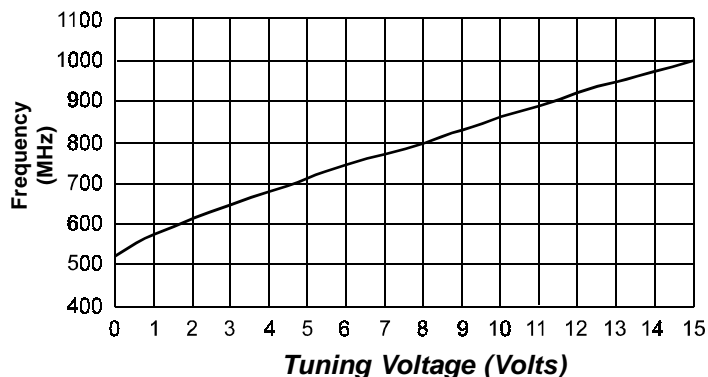
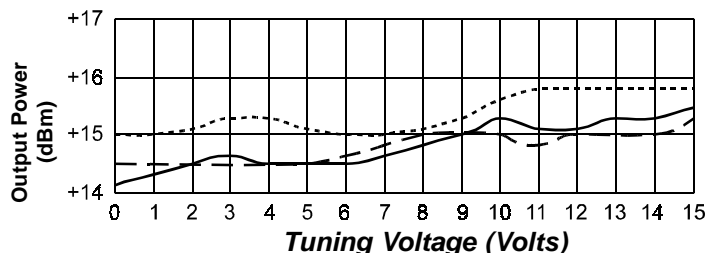
CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	600 - 900 MHz	600 - 900 MHz
Output Power (dBm)	+15	+13.0 Min.
Power Flatness (dB)	±0.7	±1.0 Max.
Tuning Voltage Range (v)	1.5 to 12	0 to 15
Tuning Voltage Sensitivity (MHz/V)	25	20 Min.
Harmonics (dBc)	-20	-12 Max.
Spurious (dBc)	<-80	- 80 Max.
3dB Modulation BW Zg = 50 Ohms		5 Min.
Pushing (MHz/V)	2	4.0 Max.
Pulling (MHz); 12 dB RL	15	20 Max.
Frequency Drift (MHz/°C)	—	0.1 Max.
Power Vdc	+15	+15
mA	20	25.0 Max.

**Maximum Ratings**

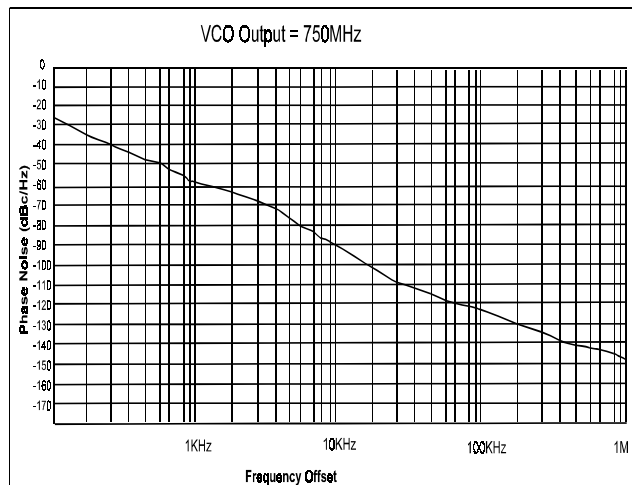
- Ambient Operating Temperature ..... -55°C to + 100 °C
- Storage Temperature ..... -62°C to + 125 °C
- Case Temperature ..... + 125 °C
- DC Voltage ..... + 20 Volts
- Maximum DC Tuning Voltage ..... + 20 Volts
- Minimum DC Tuning Voltage ..... 0 Volts

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

**Typical Performance Data**



Legend ——— +25 °C    - - - - +85 °C    ······ -55 °C



Notes:

1. Phase Noise is measured using the Aeroflex PN9000.
2. Worst case phase noise @ 100KHz offset across frequency range and temperature extremes is -118dBc/Hz.



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