

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

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

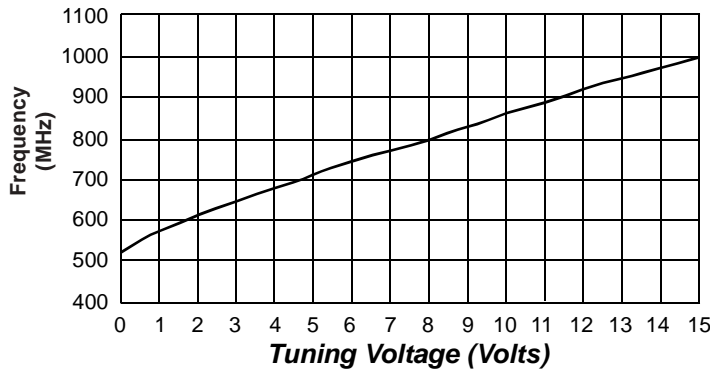
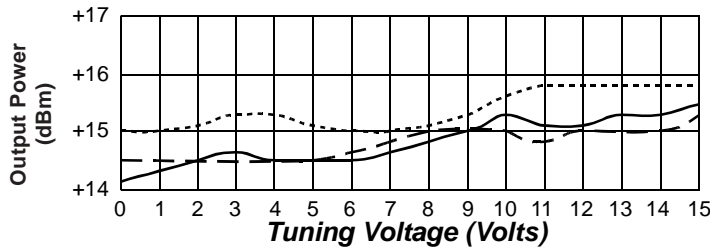
Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
5Frequency	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 Ohm	—	5 Min.
Pushing (MHz/V)	2	4.0 Max.
Pulling (MHz); 12 dB RL	15	20 Max.
Frequency Drift (MHz/°C)	—	0.1 Min.
Power Vdc	+15	+15
m A	20	25.0 Max.

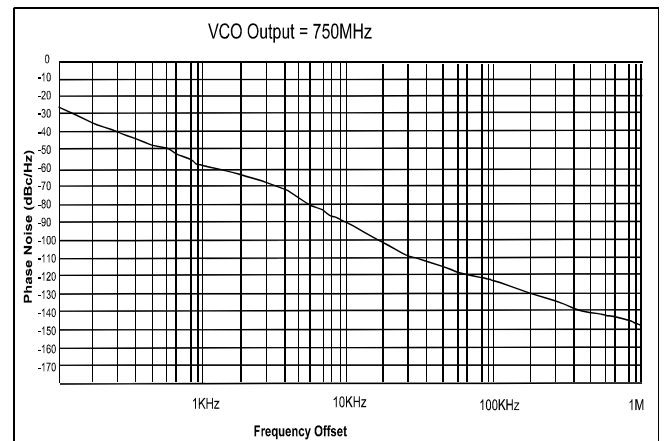
Maximum Ratings

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 Volt

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 -118 dBc/Hz.



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