

VOLTAGE CONTROLLED OSCILLATOR *TOM9111*

1500 - 2750 MHz

Available as:
 TOM9111, 4 Pin TO-8 (T4)
 TON9111, 4 Pin Surface Mount (SM3)
 TOP9111, 4 Pin Flatpack (FP4)
 BXO9111, Connectorized Housing (H1)

Features

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

Specifications

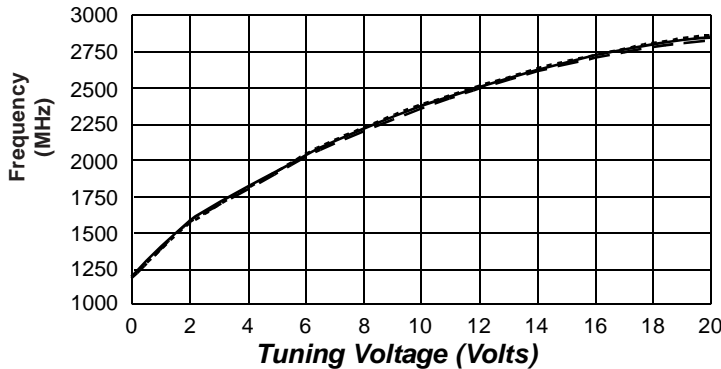
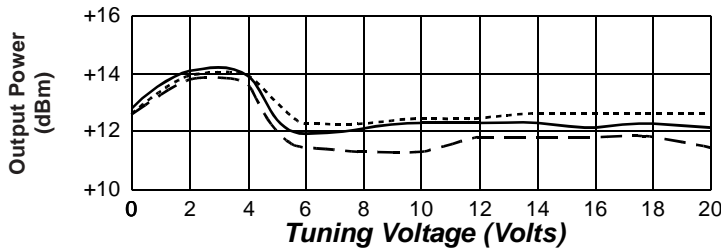
CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	1500 - 2750 MHz	1500 - 2750 MHz
Output Power (dBm)	+12	+10.0 Min.
Power Flatness (dB)	+/-1.5	+/-1.5 Max.
Tuning Voltage Range (v)	2 to 18	0 to 20
Tuning Voltage Sensitivity (MHz/V)	80	30 Min.
Harmonics (dBc)	-20	-10 Max.
Spurious (dBc)	<-80	-80 Max.
3dB Modulation BW, Zg =50 Ohms	---	15MHz Min.
Pushing (MHz/V)	2.0	5.0 Max.
Pulling (MHz); 22 dB RL	30	45 Max.
Frequency Drift (MHz/°C)	---	0.5 Max.
Power Vdc	+15	+15
mA	19	25

Maximum Ratings

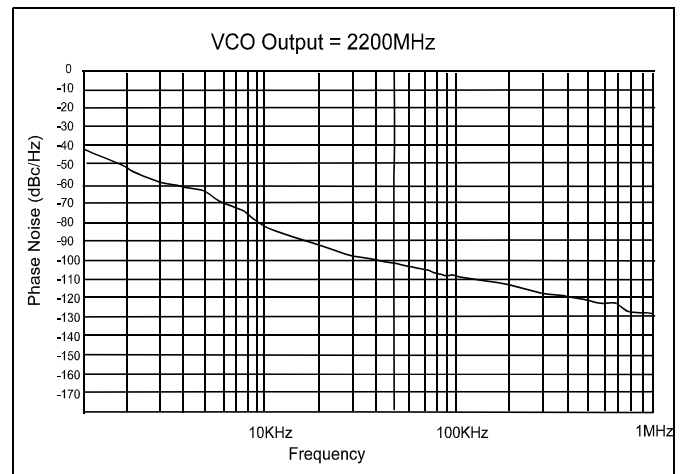
Ambient Operating Temperature -55°C to + 100 °C
 Storage Temperature -62°C to + 125 °C
 Case Temperature + 125 °C
 DC Voltage + 20 Volts
 Maximum DC Tuning Voltage + 20 Volts
 Minimum DC Tuning Voltage 0 Volts

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 -100dBc/Hz.



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