

VOLTAGE CONTROLLED OSCILLATOR

TOM9316

2500 - 4000 MHz

Available as: TOM9316, 4 Pin TO-8 (T4)
 TON9316, 4 Pin Surface Mount (SM3)
 TOP9316, 4 Pin Flatpack (FP4)
 BXO9316, Connectorized Housing (H1)

Features

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

Specifications

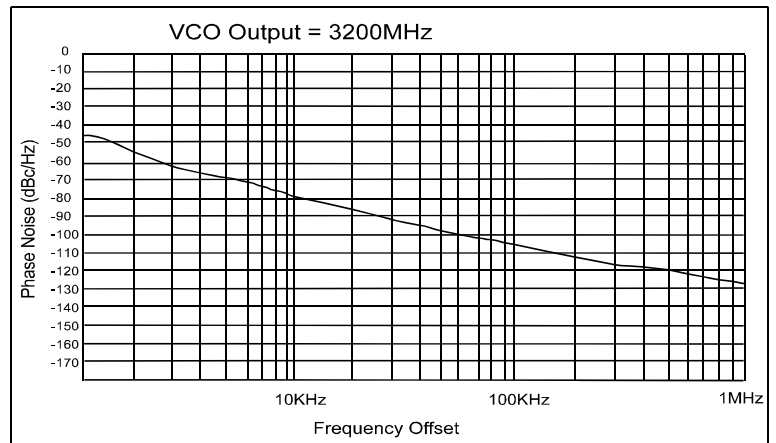
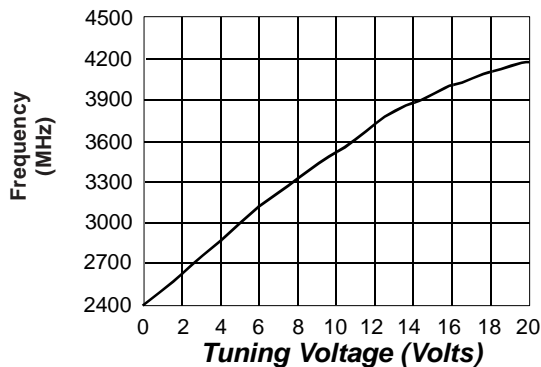
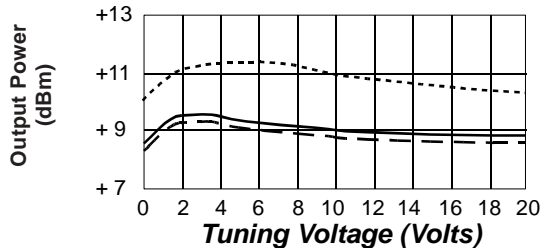
CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	2500 -4000 MHz	2500 - 4000 MHz
Output Power (dBm)	+9	+7 Min.
Power Flatness (dB)	±1.0	±2.0 Max.
Tuning Voltage Range (v)	1 to 18	0 to 20
Tuning Voltage Sensitivity (MHz/V)	85	25 Min.
Harmonics (dBc)	-15	-10 Max.
Spurious (dBc)	<-80	-80 Max.
3dB Modulation BW, Zg =50 Ohms	---	15 MHz Min.
Pushing (MHz/V)	5	15 Max.
Pulling (MHz); 22 dB RL	20	30 Max.
Frequency Drift (MHz/°C)	---	-0.5 Max.
Power Vdc	+15	+15
mA	25	30 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



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.

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



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