

VOLTAGE CONTROLLED OSCILLATOR

TOM9310

470 - 570 MHz

Available as:

TOM9310, 4 Pin TO-8 (T4)
TON9310, 4 Pin Surface Mount (SM3)
TOP9310, 4 Pin Flatpack (FP4)
BXO9310, Connectorized Housing (H1)

Features

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

Specifications

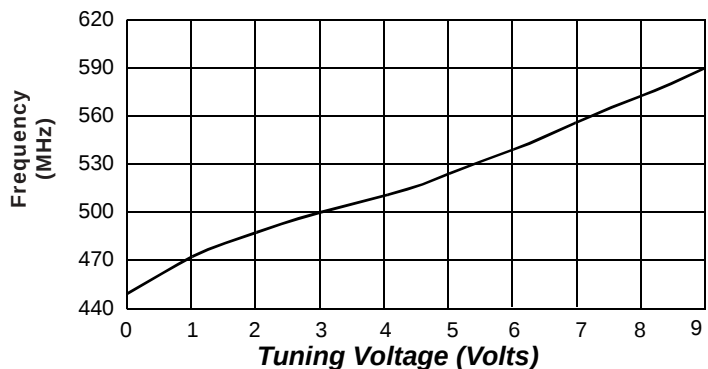
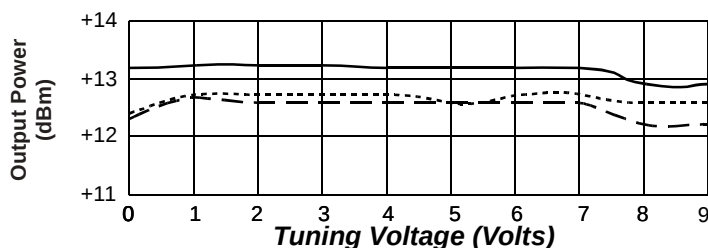
CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	470 - 570 MHz	470 - 570 MHz
Output Power (dBm)	+12	+10 Min.
Power Flatness (dB)	±0.25	±0.5 Max.
Tuning Voltage Range (v)	1 to 10	0 to 15
Tuning Voltage Sensitivity (MHz/V)	25	10 Min.
Harmonics (dBc)	-17	-12 Max.
Spurious (dBc)	<-80	-80 Max.
3dB Modulation BW, Zg = 50 Ohms	---	5MHz Min.
Pushing (MHz/V)	0.5	1.0 Max.
Pulling (MHz); 12 dB RL	12	20 Max.
Frequency Drift (MHz/°C)	0.125	0.25 Max.
Power Vdc	+9	+9
mA	16	20 Max.

Maximum Ratings

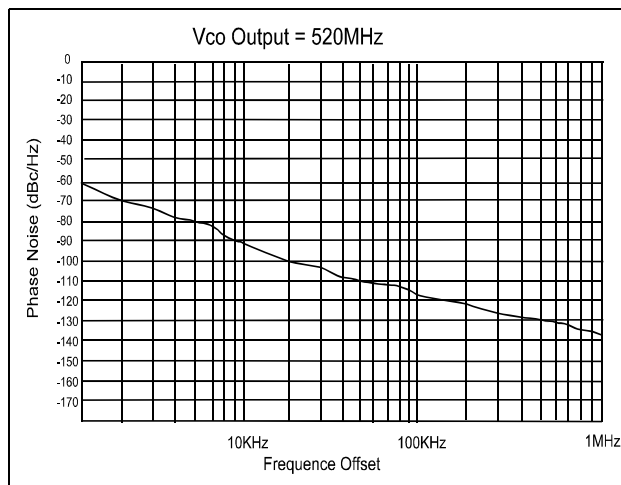
Ambient Operating Temperature -55°C to + 100 °C
Storage Temperature -62°C to + 125 °C
Case Temperature + 125 °C
DC Voltage + 15 Volts
Maximum DC Tuning Voltage + 15 Volts
Minimum DC Tuning Voltage 0 Volt

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 -110dBc/Hz.



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