

VOLTAGE CONTROLLED OSCILLATOR

TOM9307
300 - 600 MHz

Available as:

- TOM9307, 4 Pin TO-8 (T4)
- TON9307, 4 Pin Surface Mount (SM3)
- TOP9307, 4 Pin Flatpack (FP4)
- BXO9307, Connectorized Housing (H1)

Features

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

Specifications

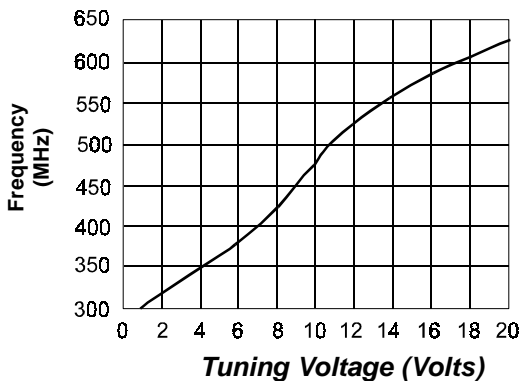
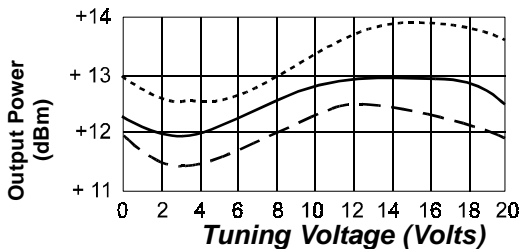
CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = - 55 °C to + 85 °C
Frequency	300 - 600 MHz	300 - 600 MHz
Output Power (dBm)	12	+10 Min.
Power Flatness (dB)	±1	±2.0 Max.
Tuning Voltage Range (v)	1 to 17	0 to 20
Tuning Voltage Sensitivity (MHz/V)	20	5 Min.
Harmonics (dBc)	-15	-10
Spurious (dBc)	<-80	- 80 Max.
3dB Modulation BW, Zg = 50 Ohm	---	8MHz Min.
Pushing (MHz/V)	2	4 Max.
Pulling (MHz); 12dB RL	5	15 Max.
Frequency Drift (MHz/°C)	—	-.05 Max.
Power	Vdc	+15
	mA	17
		+15
		25

Maximum Ratings

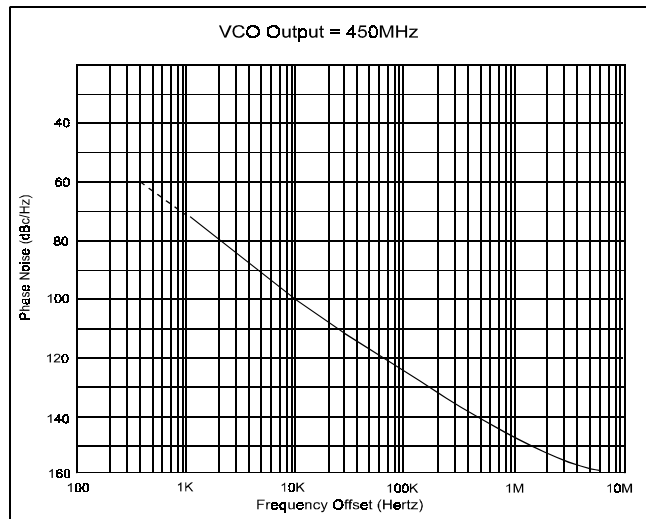
- Ambient Operating Temperature -54°C to + 100 °C
- Storage Temperature -62°C to + 125 °C
- Case Temperature + 125 °C
- DC Voltage + 20 Volts
- Maximum DC Tuning Voltage + 20 Volts
- Minimum DC Tuning Voltage 0 Volts

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

Typical Performance Data



Legend ——— + 25 °C - - - - +85 °C -54 °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 - 120 dBc/Hz.



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