

VOLTAGE CONTROLLED OSCILLATOR

TOM9338
180 - 220 MHz

Available as:

TOM9338, 4 Pin TO-8 (T4)
TON9338, 4 Pin Surface Mount (SM3)
BXO9338, Connectorized Housing (H1)

Features

- Low Noise Bipolar Transistor
- Broad Tuning Range
- Operating Case Temp. -40 °C to + 85 °C
- Environmental Screening Available

Specifications

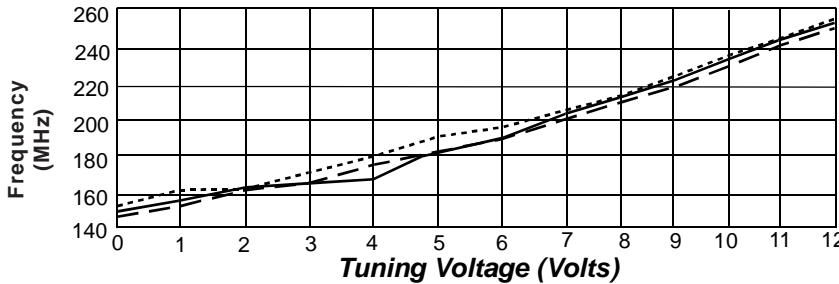
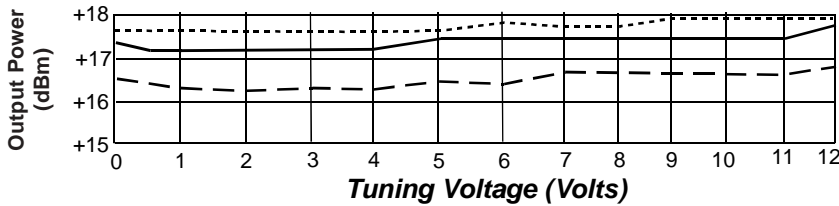
CHARACTERISTIC	TYPICAL Ta = +25°C	MIN/MAX Ta = -40°C to +85 °C
Frequency	180 - 220 MHz	180 - 220 MHz
Output Power (dBm)	+17.5	+15.0 Min.
Power Flatness (dBm)	+/-0.25	+/-0.5 Max.
Tuning Voltage Range (V)	4.0 to 9.0	0.0 to 12.0
Tuning Voltage Sensitivity (MHz/V)	9.0	3.0 Min.
Harmonics (dBc)	20.0	10.0 Max.
3dB Modulation BW, Zg = 50 Ohms	----	5 MHz Min.
Pushing (MHz/V)	0.5	2.0 Max.
Pulling (MHz); 14 dB RL	5.0	10.0 Max.
Frequency Drift (MHz/°C)	----	.10 Max.
Power	Vdc	+15
	m A	26.0
		30.0 Max.

Maximum Ratings

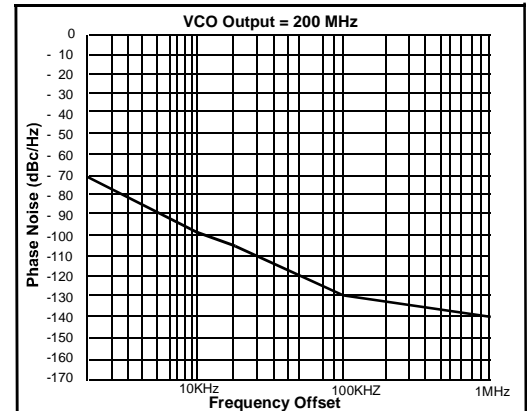
Ambient Operating Temperature -40°C to + 85 °C
Storage Temperature -62°C to + 125 °C
Case Temperature + 125 °C
DC Voltage + 15 Volts
Maximum DC Tuning Voltage + 15 Volts
Minimum DC Tuning Voltage 0 Volts

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

Typical Performance Data



Legend ——— +25 °C - - - - - +85 °C - - - - - -40 °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 -120dBc/Hz



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