

VOLTAGE CONTROLLED OSCILLATOR

TOM9317

3500 - 4500 MHz

Available as:
 TOM9317, 4 Pin TO-8 (T4)
 TON9317, 4 Pin Surface Mount (SM3)
 TOP9317, 4 Pin Flatpack (FP4)
 BXO9317, Connectorized Housing (H1)

Features

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

Specifications

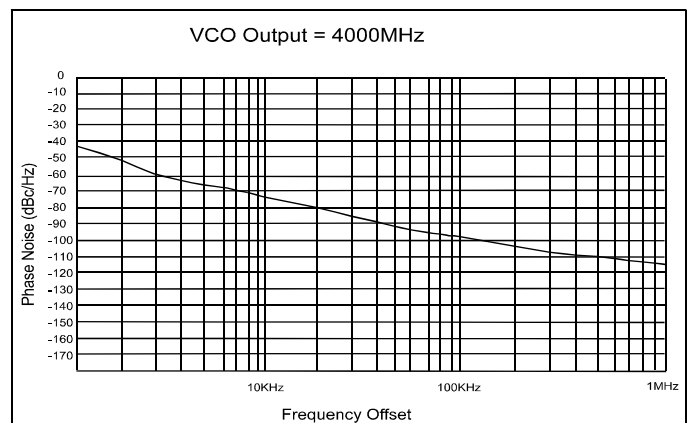
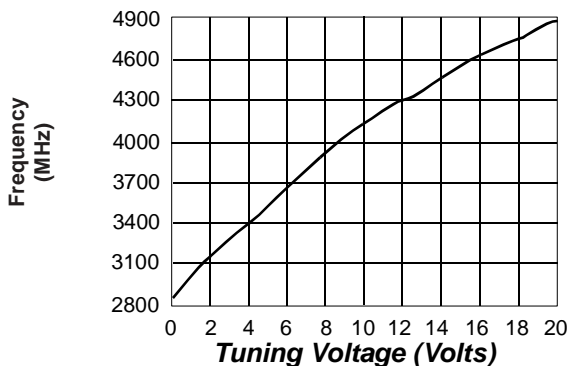
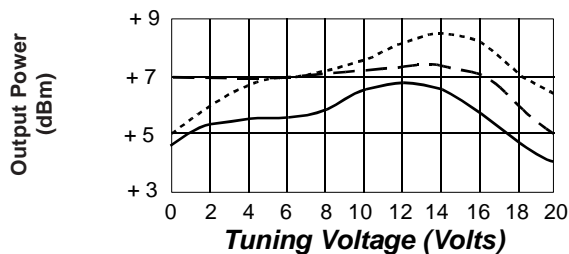
| CHARACTERISTIC | TYPICAL Ta = 25 °C | MIN/MAX Ta = - 55 °C to + 85 °C |
|-----------------------------------|-----------------------|------------------------------------|
| Frequency | 3500 - 4500 MHz | 3500 - 4500 MHz |
| Output Power (dBm) | +7 | +5 Min. |
| Power Flatness (dB) | ±1.0 | ±2.0 Max. |
| Tuning Voltage Range (v) | 4 to 5 | 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 Ohm | --- | 20 MHz Min. |
| Pushing (MHz/V) | 5 | 15 Max. |
| Pulling (MHz); 22dB RL | 15 | 25 Max. |
| Frequency Drift (MHz/°C) | --- | -0.5 Max. |
| Power | Vdc | +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 -90 dBc/Hz.

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



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