

VOLTAGE CONTROLLED OSCILLATOR

TOM9318

4000 - 5000 MHz

Available as:

- TOM9318, 4 Pin TO-8 (T4)
- TON9318, 4 Pin Surface Mount (SM3)
- TOP9318, 4 Pin Flatpack (FP4)
- BXO9318, Connectorized Housing (H1)

Features

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

Specifications

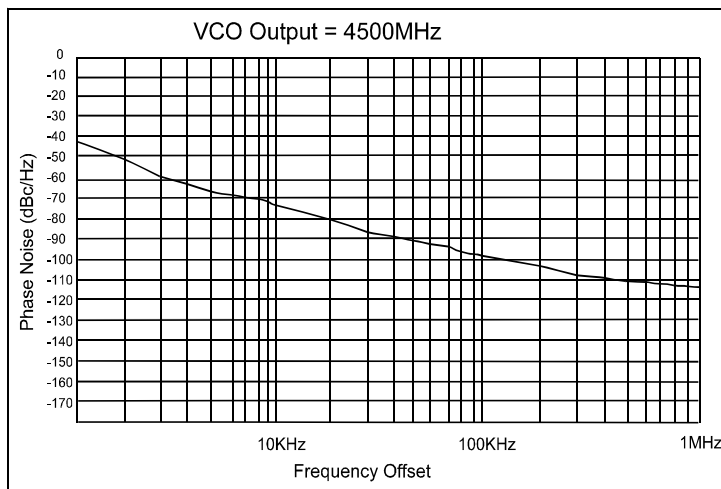
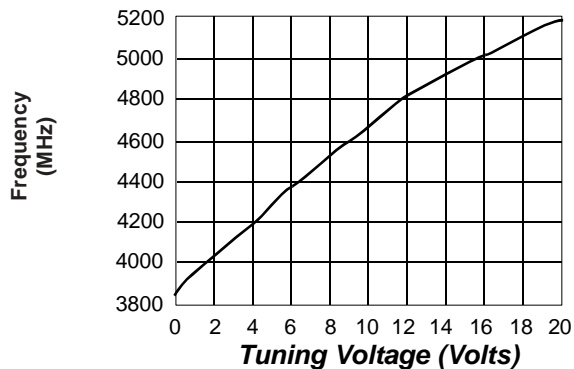
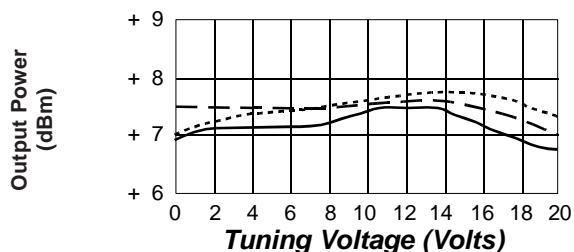
| CHARACTERISTIC | TYPICAL Ta = 25 °C | MIN/MAX Ta = -55 °C to + 85 °C |
|-----------------------------------|-----------------------|-----------------------------------|
| Frequency | 4000 - 5000 MHz | 4000 - 5000 MHz |
| Output Power (dBm) | +7 | +5 Min. |
| Power Flatness (dB) | ±1.0 | ±2.0 Max. |
| Tuning Voltage Range (v) | 1 to 15 | 0 to 20 |
| Tuning Voltage | | |
| Sensitivity (MHz/V) | 85 | 30 Min. |
| Harmonics (dBc) | -20 | -10 Max. |
| Spurious (dBc) | <-80 | -80 Max. |
| 3dB Modulation BW, Zg = 50 Ohm | --- | 20 Min. |
| Pushing (MHz/V) | 10 | 20 Max. |
| Pulling (MHz); 22dB RL | 20 | 40 Max. |
| Frequency Drift (MHz/°C) | --- | -0.5 Max. |
| Power | | |
| Vdc | +15 | +15 |
| mA | 25 | 30 Max. |

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



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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