

Voltage Controlled Oscillator

Low Noise Bipolar Transistor

Model TOM9341

2200 to 2400 MHz

Features

- Low Noise Bipolar Transistor
- 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	2200 - 2400 MHz	2200 - 2400 MHz
Output Power (dBm)	+13	+12 Min.
Power Flatness (dBm)	±0.2	±1.0 Max.
Tuning Voltage Range (v)	3 to 9	3 to 9
Tuning Voltage Sensitivity (MHz/V)	45	30 Min.
Harmonics (dBc)	-30	-20 Max.
Spurious (dBc)	<-80	-60 Max.
Phase Noise @ 100KHz (dBc/Hz)	-105	-100 Max.
Pushing (MHz/V)	4	8 Max.
Pulling (MHz); 20 dB RL	35	43 Max.
Frequency Drift (MHz/°C)	0.07	0.15 Max.
Power Vdc	+15	+15
mA	35	40

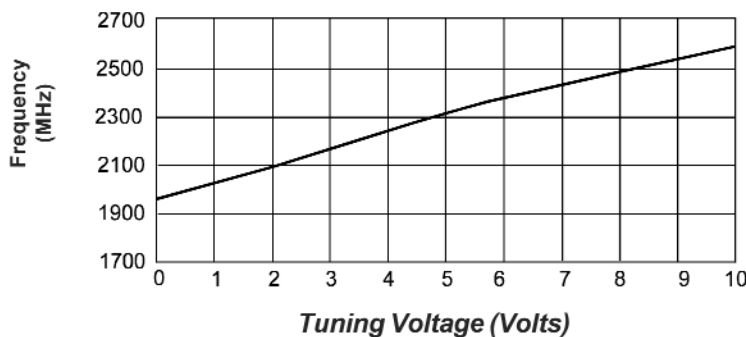
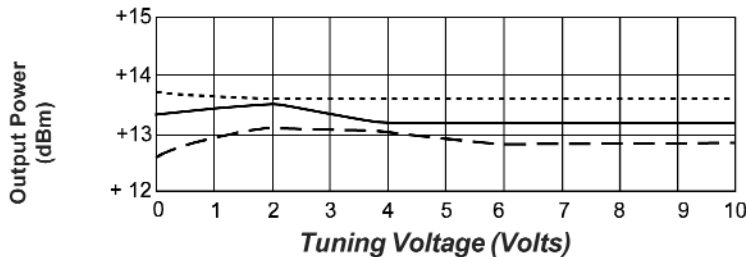
Maximum Ratings

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 Volt

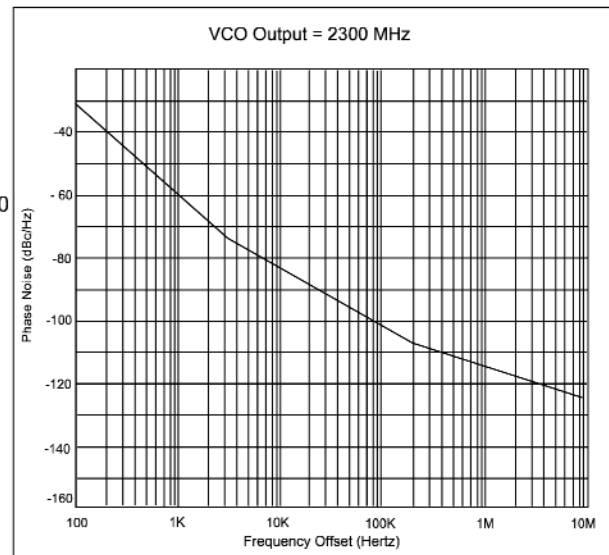
Packaging Options (see Appendix)

TOM9341, 4 Pin TO-8 (T4)
 TON9341-3, 4 Pin Surface Mount (SM3)
 TOP9341-4, 4 Pin Flatpack (FP4)
 BXO9341, Connectorized Housing (H1)

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 -100 dBc/Hz.



SPECTRUM MICROWAVE • 2144 Franklin Drive N.E. • Palm Bay, Florida 32905 • Phone: (888) 553-7531 • Fax: (888) 553-7532
 SPECTRUM CONTROL GmbH • Hansastrasse 6 • 91126 Schwabach, Germany • Phone: (49)-9122-795-0 • Fax: (49)-9122-795-58