

VOLTAGE CONTROLLED OSCILLATOR

TOM9320

1700 - 2300 MHz

Available as:
 TOM9320, 4 Pin TO-8 (T4)
 TON9320, 4 Pin Surface Mount (SM3)
 BXO9320, Connectorized Housing (H1)

Features

- Medium Output Power: +12.5 dBm Typical
- Operating Case Temp. 0 °C to + 65 °C
- Environmental Screening Available

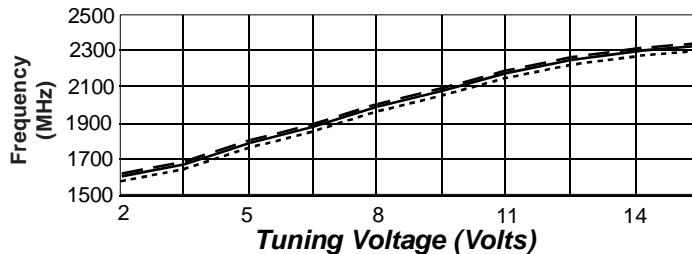
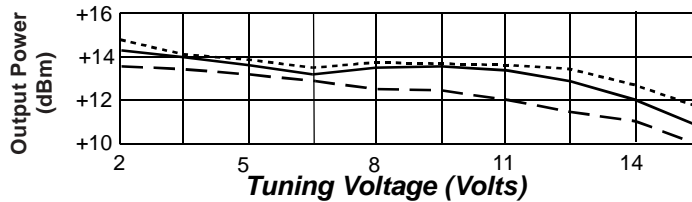
Specifications

CHARACTERISTIC	TYPICAL Ta = +25 °C	MIN/MAX Ta = 0 °C to + 65 °C
Frequency	1700 - 2300 MHz	1700 - 2300 MHz
Output Power (dBm)	+12.5	+10.0 Min.
Power Flatness (dBm)	±1.0	±1.5 Max.
Tuning Voltage Range (V)	4 to 14	3 to 15
Tuning Voltage Sensitivity (MHz/V)	60.0	40.0 Min.
Harmonics (dBc)	-20	-15 Max.
Spurious (dBc)	<-60	-60 Max.
Phase Noise @ 100 KHz (dBc/Hz)	-105	-100 Max.
Pushing (MHz/V)	5.0	9.0 Max.
Pulling (MHz); 12 dB RL	50	65 Max.
Frequency Drift (MHz/°C)	0.15	0.30 Max.
Power Vdc	+15	+15
mA	45.0	50.0 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

Typical Performance Data



V _t (V)	f _o (MHz)	Δf (MHz)	P _o (dBm)	2H (dBc)	3H (dBc)
2.00	1584.2		+14.5	-25	-35
3.00	1657.8	73.6	+14.1	-31	-32
4.00	1729.6	71.8	+13.6	-33	-28
5.00	1796.2	66.7	+13.5	-42	-25
6.00	1861.5	65.3	+13.5	-45	-23
7.00	1924.2	62.6	+13.5	-37	-20
8.00	1982.3	58.1	+13.4	-35	-19
9.00	2038.2	55.9	+13.5	-32	-22
10.00	2091.1	53.0	+13.9	-33	-25
11.00	2141.7	50.6	+13.7	-32	-28
12.00	2191.7	50.0	+13.3	-33	-29
13.00	2241.9	50.2	+13.0	-35	-26
14.00	2291.7	49.8	+12.6	-37	-27
15.00	2342.0	50.3	+11.7	-48	-51

Legend ——— +25 °C - - - - +65 °C - - - - - 0 °C

