

SMD Voltage Controlled Oscillator

Frequency 1610-1670MHz

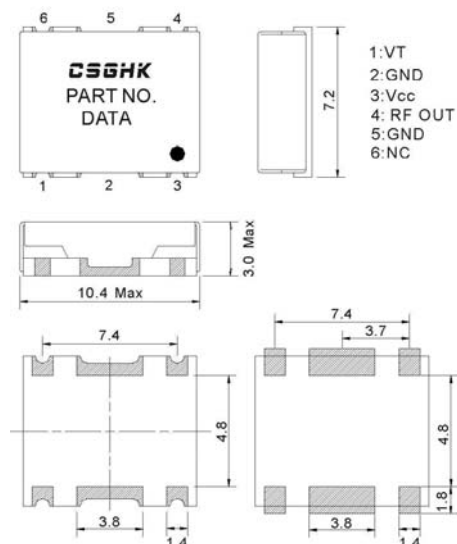
VP1640M

Features

- Miniature Size
- Surface Mount Package
- Electrically Shielded
- Low Phase Noise
- Highly Linear Tuning

Description

The VP1640M is a fundamental single ended oscillator designed for use in cost sensitive wireless and telemetry applications. The device has been optimized by careful selection of the bipolar transistor and varactor diode for low phase noise and high linearity tuning characteristics.



Electrical Specifications, $T_A = +25^\circ\text{C}$, $V_{CC} = +5\text{V}$ (unless otherwise stated)

Parameter	Test Conditions	Units	Min.	Typ.	Max.
Frequency Rangs		MHz	1610		1670
Tuning Voltage (V)		V	0.5		4.5
RF Output Power	1610-1670MHz	dBm	0.0		4.0
Supply Voltage (VCC)		V	4.75		5.25
Supply Current (Icc)		mA		21	24
Phase Noise :					
	@10kHz Offset:	dBc/Hz		-107	-104
	@100kHz Offset:	dBc/Hz		-128	-124
Average Tuning Sensitivity	1610-1670MHz	MHz/V		29.6	
Harmonic Outputs		dBc		-15	
OperatingTemperature Range		$^\circ\text{C}$	-40		+85
Tune Input Capacitance		PF		20	

Comments

All specifications apply with a 50 ohm load impedance.



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