

SMD Voltage Controlled Oscillator

Frequency 145-170MHz

VT170M

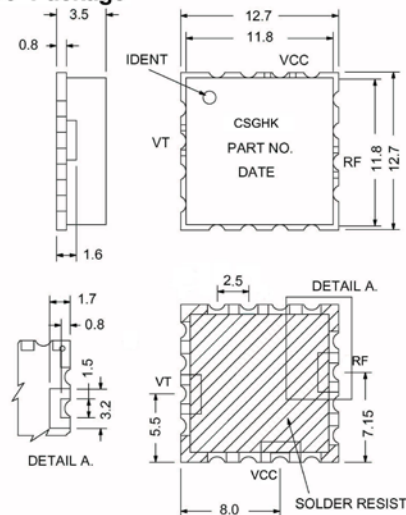
Features

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

Description

The VT170M 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.

SK605 Package



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	145		170
Tuning Voltage (V)		V	0.5		4.5
RF Output Power	145-170MHz	dBm	-2.0		2.0
Supply Voltage (VCC)		V	4.75	5	5.25
Supply Current (Icc)		mA		13	17
Phase Noise :					
	@10kHz Offset:	dBc/Hz		-118	-115
	@100kHz Offset:	dBc/Hz		-139	-136
Average Tuning Sensitivity	145-170MHz	MHz/V		10	
Harmonic Outputs		dBc		-15	-10
OperatingTemperature Range		$^\circ\text{C}$	-40		+85
Tune Input Capacitance		PF		100	

Comments

All specifications apply with a 50 ohm load impedance.