

SMD Voltage Controlled Oscillator

Frequency 795-845MHz

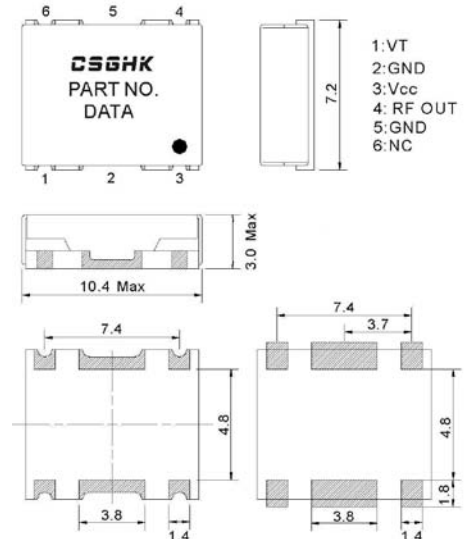
CVP-845M

Features

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

Description

The CVP-845M 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	795		845
Tuning Voltage (V)		V	0.5		4.5
RF Output Power	795-845MHz	dBm	-2.0		2.0
Supply Voltage (VCC)		V	4.75		5.25
Supply Current (Icc)		mA		13	15
Phase Noise :					
	@10kHz Offset:	dBc/Hz		-111	-106
	@100kHz Offset:	dBc/Hz		-132	-127
Average Tuning Sensitivity	795-845MHz	MHz/V		21.2	
Harmonic Outputs		dBc		-15	
OperatingTemperature Range		$^\circ\text{C}$	-30		+75
Tune Input Capacitance		PF		47	

Comments

All specifications apply with a 50 ohm load impedance.

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Tuning Voltage (v)	Output Frequency (MHz)	Tuning Sensitivity (MHz/V)	Output Power (dBm)	Harmonic Suppression (dBc)
-55℃				
0.5	781.5		0.5	-12.3
1.0	792.2		0.5	-12.4
1.5	802.7		0.4	-12.6
2.0	813.0		0.4	-12.7
2.5	823.5		0.3	-12.9
3.0	834.5		0.2	-12.8
3.5	844.7		0.4	-12.7
4.0	854.8		0.4	-13.1
4.5	865.6		0.2	-13.4
+25℃				
0.5	775.8		0.7	-19.9
1.0	786.7		0.7	-19.9
1.5	797.3	调整说明： 微调频率可在线圈位 子加锡！	0.7	-19.7
2.0	807.4		0.7	-18.8
2.5	817.8		0.7	-19.7
3.0	828.5		0.6	-19.1
3.5	839.1		0.6	-19.1
4.0	849.1		0.6	-19.6
4.5	860.0		0.5	-20.9
+85℃				
0.5	772.0		0.2	-23.4
1.0	782.9		0.2	-24.3
1.5	793.4		0.2	-24.8
2.0	803.8		0.2	-25.2
2.5	813.9		0.0	-25.8
3.0	824.6		-0.1	-26.4
3.5	835.4		-0.1	-27.2
4.0	845.6		-0.2	-28.0
4.5	856.0		-0.5	-28.6