

Travelling Merchant: \_\_\_\_\_

# DATASHEET

Standard: V754-B812-61.44MHz

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date:			

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## 1. Electrical Parameters

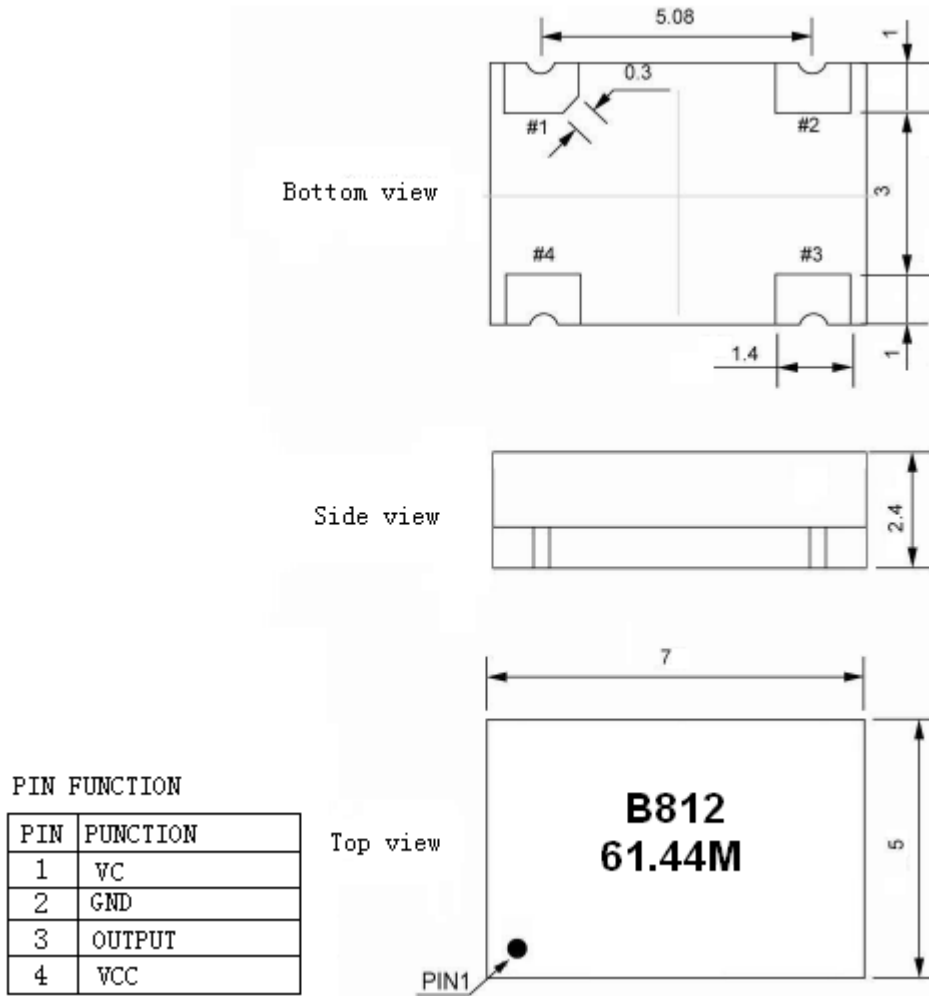
MODEL: V754-B812-61.44MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	61.44			MHz	
	Output Waveform	LVCMOS				
	Output Low Voltage			0.4	V	$V_{cc}=3.3V, O_{load}=15pF$
	Output High Voltage	2.4			V	$V_{cc}=3.3V, O_{load}=15pF$
	Duty Cycle	45	50	55	%	
	Rise / Fall Time (10%~90%)		7	8	ns	@25°C
	Load	15			pF	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-30		+30	ppm	$T_A$ varied from -40°C to 85°C, measurement referenced to frequency observed with $T_A=25°C, V_{cc}=3.3V, V_c=1.65V, O_{load}=15pF$ , temperature rise speed less than 2°C per minute.
	Initial Frequency Tolerance	-15		+15	ppm	Measurement referenced to frequency observed with $T_A=25°C, V_{cc}=3.3V, V_c=1.65V$ , and after 15 minutes of operation, within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-3		+3	ppm	measurement referenced to frequency observed $T_A=25°C, V_{cc}$ varied from 3.14V to 3.46V, $V_c=1.65V$ and $O_{Load}=15pF$ .
	Frequency Tolerance vs. Load	-1		+1	ppm	5% load change measurement referenced to frequency observed with $T_A=25°C, V_{cc}=3.3V, V_c=1.65V$ and $O_{Load}=15pF$ .
	Aging Tolerance 1 Year	-3		+3	ppm	$V_{cc}, V_c, T_A$ constant measurement referenced to frequency observed with $T_A=25°C, V_{cc}=3.3V, V_c=1.65V$ , and after 30 days of operation.
Power Supply	Current Consumption		10		mA	@25°C, $V_{cc}=3.3V, V_c=1.65V, O_{load}=15pF$
	Supply Voltage	3.14	3.3	3.46	V	
Voltage Control Characteristics	Frequency Tuning Range	-160		-60	ppm	$V_c=0V$ . measurement referenced to $V_c=1.65V$
		-15		+15	ppm	$V_c=1.65V$ . measurement referenced to Exactly 61.44MHz
		+60		+160	ppm	$V_c=3.3V$ . measurement referenced to $V_c=1.65V$
	Linearity			20	%	



	Slope	Positive				
	Input Impedance	100			K Ω	
Phase Noise	Phase Noise		-70		dBc/Hz	10Hz
			-105			100Hz
			-130			1KHz
			-140			10KHz
			-140			100KHz
Environmental Conditions	Operable Temperature	-40		+85	°C	
	Storage Temperature	-55		+125	°C	
	Vibration	Test Condition: 0.75mm ;acceleration:10g;10Hz~2000Hz, one cycle per 30 min, test 2 hour. (3 times for each 3 directions X , Y , Z).				
	Shock	100g; 6ms; half sine wave (3 times for each 3 directions X , Y, Z ),IEC 68-2-27 Test Ea/Severity 50A.				
	Drop	Test Condition: free drop on steel-made surface or rigid plane from a height of 100cm, IEC 68-2-32.				

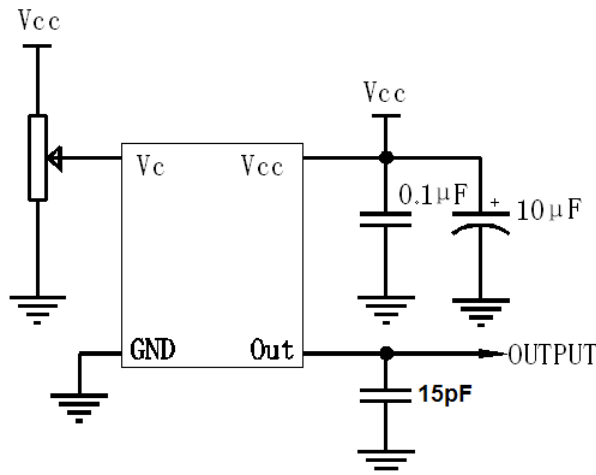


## 2. Mechanical Structure (mm)



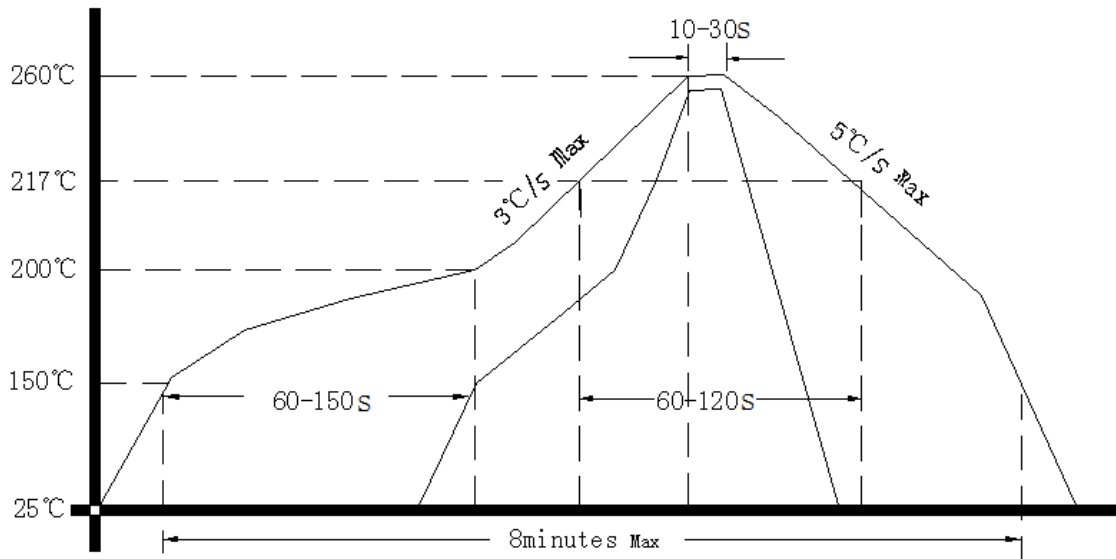
Note: Referential Weight 0.1g

## 3. Test Circuit





#### 4. Reflow Soldering Curve (RoHS)



#### 5. Package: Tape & Reel (mm)

