

Travelling Merchant: _____

DATASHEET

Standard: **V754-B812-61.44MHz**

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2011.03.09			

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1. Electrical Parameters

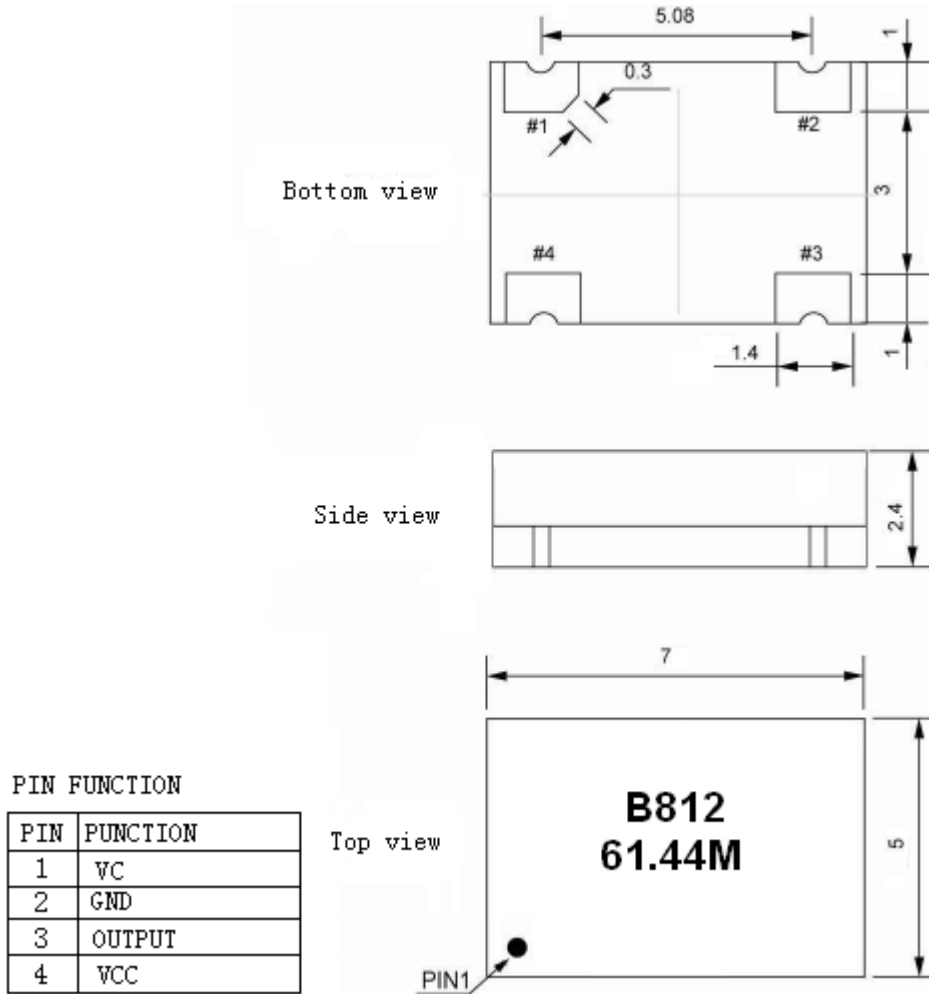
MODEL: V754-B812-61.44MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	61.44			MHz	
	Output Waveform	LVCMOS				
	Output Low Voltage			0.4	V	$V_{cc}=3.3V, O_{load}=15pF$
	Output High Voltage	2.4			V	$V_{cc}=3.3V, O_{load}=15pF$
	Duty Cycle	45	50	55	%	
	Rise / 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 $T_A=25^\circ C, V_{cc}=3.3V, V_c=1.65V, O_{load}=15pF$, temperature rise speed less than 2°C per minute.
	Initial Frequency Tolerance	-15		+15	ppm	Measurement referenced to frequency observed with $T_A=25^\circ C, V_{cc}=3.3V, V_c=1.65V$, 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 $T_A=25^\circ C, V_{cc}$ 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 $T_A=25^\circ C, V_{cc}=3.3V, V_c=1.65V$ and $O_{Load}=15pF$.
	Aging Tolerance 1 Year	-3		+3	ppm	V_{cc}, V_c, T_A constant measurement referenced to frequency observed with $T_A=25^\circ C, V_{cc}=3.3V, V_c=1.65V$, 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			KΩ	
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	
	ESD Level	Human Body Model, class2: 2000V to 4000V; ANSI/ESDA/JEDEC JS-001-2010.				
		Machine Model, class B: 200V to 400V; JEDEC JESD22-A115C.				
	Moisture Sensitivity Level	Not humidity sensitive.				
	Vibration	Test Condition: 0.75mm ;acceleration:10g;10Hz~500Hz, one cycle per 30 min, test 2 hour. (3 times for each 3 directions X , Y , Z), IEC 68-2-06 Test Fc.				
Shock	50g; 11ms; half sine wave (3 times for each 3 directions X, Y, Z), IEC 68-2-27 Test Ea/Severity 50A.					
Full Package Storage	Relative Humidity (%)	20%-70%				
	Temperature(°C)	-30~35°C				



2. Mechanical Structure (mm)



Note: Referential Weight 0.1g

3. Test Circuit

