规格书编号

SPEC NO :

产品规格书
SPECIFICATION

CUSTOMER 客 户：

PRODUCT 产 品：OSCILLATOR

MODEL NO 型 号：SOC3-27.000-50-3.3V

PREPARED 编 制：LEO CHECKED 审 核：YORK

APPROVED 批 准：LIUMING D A T E 日 期：2011-05-31

客户确认 CUSTOMER RECEIVED:		
审核 CHECKED	批准 APPROVED	日期 DATE

无锡市好达电子有限公司

Shoulder Electronics Limited

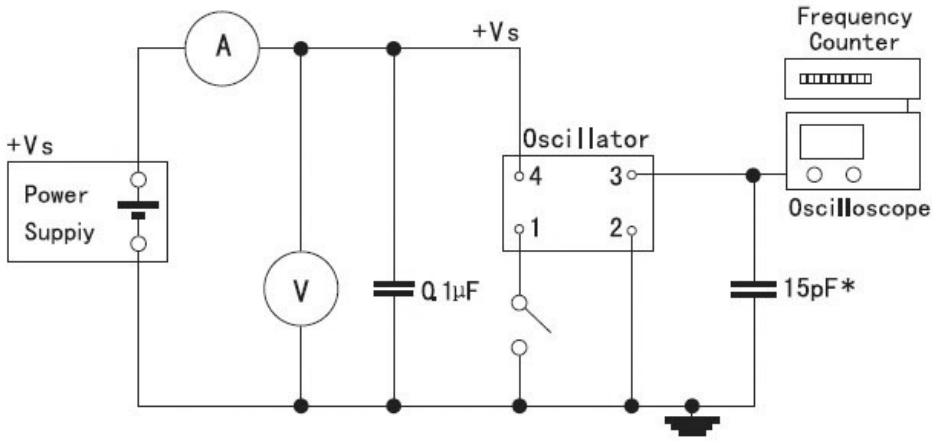
更改历史记录
History Record

更改日期 Date	规格书编号 Spec. No.	产品型号 Part No.	客户产品型号 Customer No.	更改内容描述 Modify Content	备注 Remark

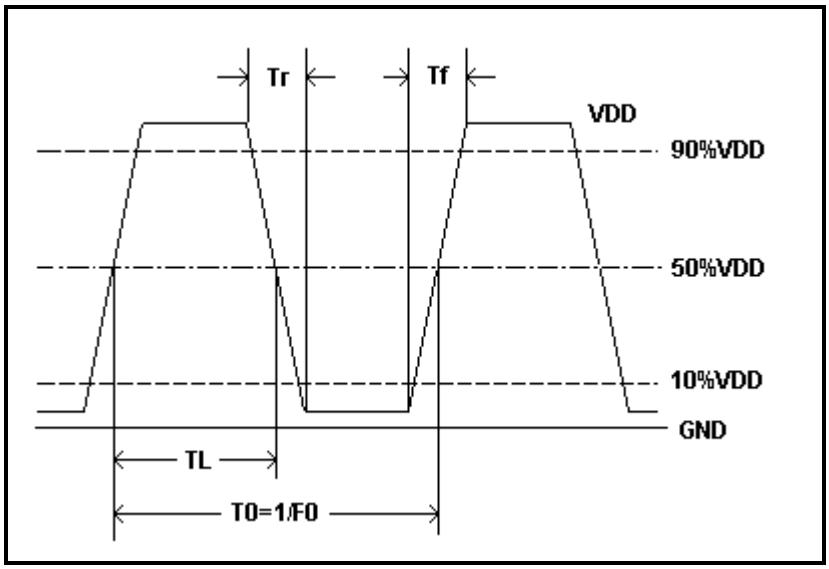
1. Electrical characteristics

Items	Symbol	Specification			Unit	Notes
		Min	Typ	Max		
Model No		SOC3225				
Blank Cutting Mode		AT FUND.				
Nominal Frequency		27.000			MHz	
Oscillation Mode		■Fundamental □3rd				
Frequency Stability		±50ppm			ppm	
Operating Temperature	Topr	-20		70	℃	
Storage Temperature	Tstg	-55		125	℃	
Power supply voltage	VDD	3.3V±10%VDD			V	
Output Load			15		pF	
Current consumption	IDD			15	mA	
Rise time/Fall time	Tr/Tf			6	ns	
Output Symmetry	Duty	45		55	%	@50% VDD
High Level input voltage	VIH	0.9VDD			V	INH
Low Level input voltage	VIL			0.1VDD	V	INH
Aging:		-3		+3	ppm	Per year

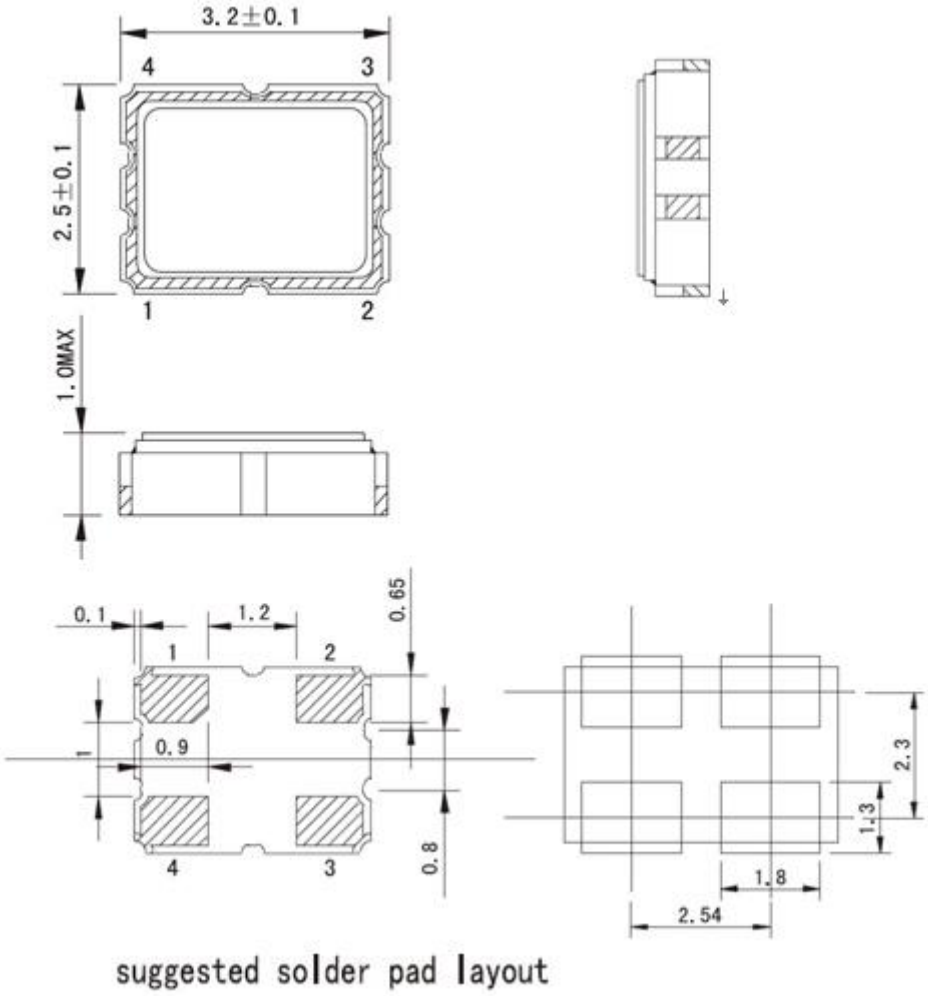
2. Test Diagram



3.Output waveform



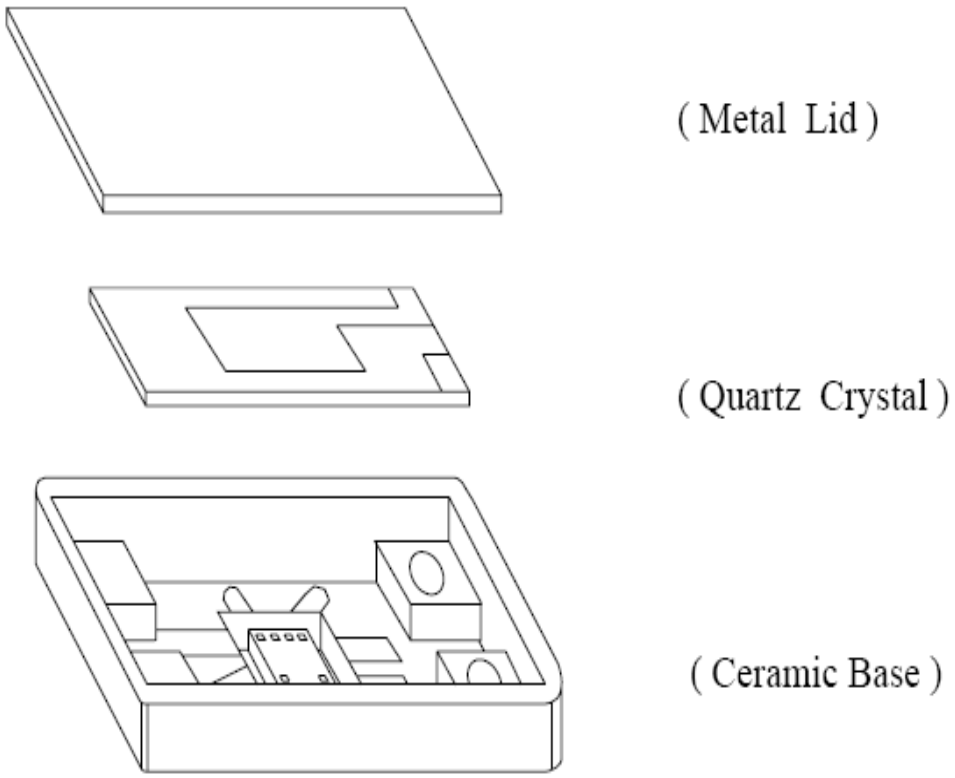
4. Solder Dimension And Pattern



suggested solder pad layout

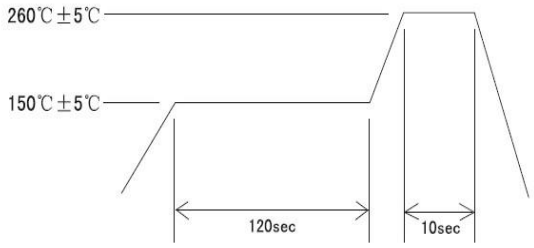
5. Structure drawing

SMD OSC structure drawing:



6. Reliability Specification

	Item	Condition	Standard
1.	Drop characteristics	Free drop from 75cm height on a hard wooden board for 3 times. (Board is thickness more than 30 mm.)	Frequency change: ⩽±5ppm
2	Mechanical shock	Device are shocked to half sine wave (1000g) three mutually perpendicular axes each 3 times	Frequency change: ⩽±5ppm
3.	Shake characteristics	Shake frequency 10~55Hz, cyc1~2 minutes, swing 1.5mm, direction x/y/z, all 30 minutes, test after 1	Frequency change: ⩽±5ppm

		hours.	
4.	Humidity characteristics	+40±2℃ & 90%~95% R.H. 250 hours	Frequency change: ≤±5ppm
5.	Low temperature characteristics	-40±2℃, 250 hours, put in room temperature, test after 1 hours.	Frequency change: ≤±5ppm
6.	High temperature characteristics	+85±2℃, 250 hours, put in room temperature, test after 1 hours.	Frequency change: ≤±5ppm
7.	Temperature cycling	-30±3℃/30±3 min~+85±2℃/30±3min, 5 cycles	Frequency change: ≤±5ppm
8.	Refluence examination	•Reflow Condition(回流焊条件)  CYCLE TIME:200sec Max.	Frequency change: ≤±5ppm

7. Packing Specification(3K/REEL)

