

ROHS COMPLIANT

APPROVAL SHEET

Customer:	
Part Number:	
JYEG Part No.:	JYD3A1C3C4-10-26.000
Holder:	SMD3225
Frequency:	26.000MHZ
Manufacturer:	Jingyuan Electronics
Date:	2016/05/03

Prepared	Checked	Approved
Yang Tiesheng	Hao Jianjun	Zhang Liqiang

(For Customer Use)

Acceptable	Non-Acceptable

Revision History

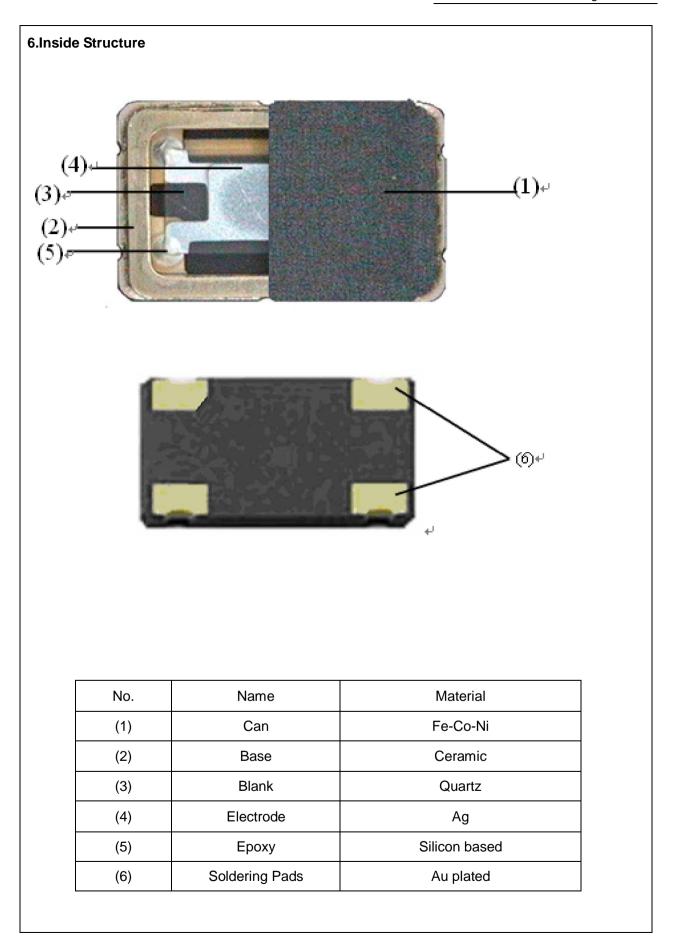
No.	Revised Date	Change Content	Approved	Remark

1. This specification applies to SMD quartz crystal unit with a frequency of 26.000 MHz.

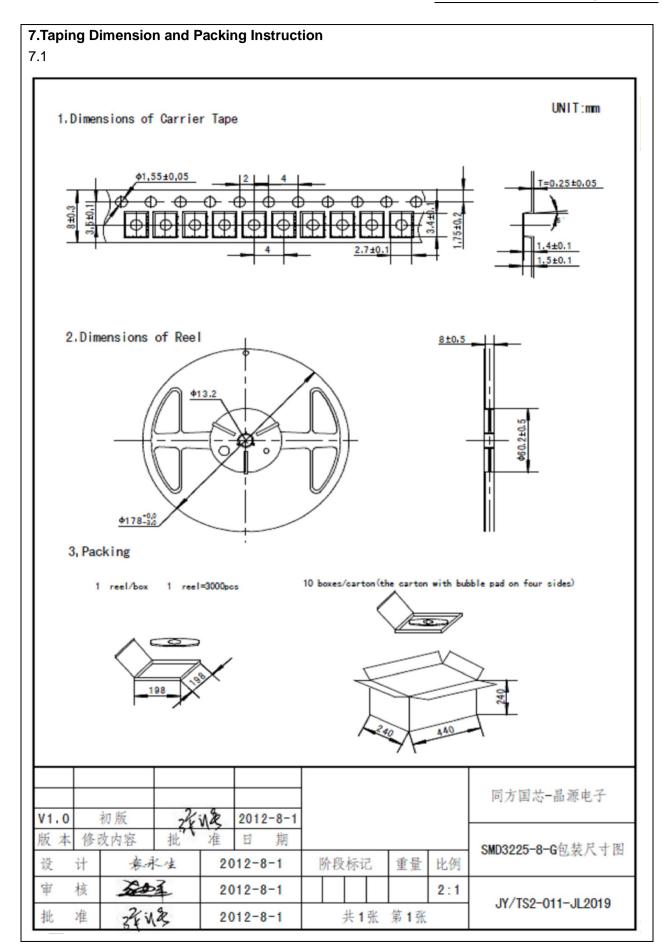
2. Electrical characteristics

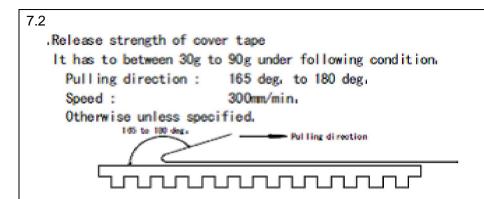
PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Normal Frequency Range	F _n	-	-	26.000	-	MHz
Order of vibration		Fundan	nental	1	l	l
Load capacitance	CL	-	-	100	-	pF
Initial Frequency Accuracy	FL	-	-10	-	10	ppm
Resonance resistance	RR	-	-	-	60	
Drive level	DL	-	-	100	-	μW
Shunt capacitance	C0	-	-	-	7	pF
Insulation resistance	IR	DC 100V	500	-	-	М
	DLD2	0.01—100 uW (10points)	-	-	-	
	FDLD		-	-	-	ppm
DLD	RLD2		-	-	-	
	DLDH2		-	-	-	
	FDLDH		-	-	-	ppm
Motional capacitance	C1	-	-	-	-	fF
Inductance	L	-	-	-	-	mH
Trim sensitivity	TS	-	-	-	-	ppm/pF
Autoeciousness	SPDB	±5300PPM of nominal Freq	-	-	-3.0	dB
Operating temperature range	T1	± 10PPM	-10	-	60	
Storage temperature range	-	-	-40	-	85	
Aging	-	-	-5	-	5	ppm

3. Construction	
3.1 Crystal enclosure seal:	
■ Seam seal □ resistance weld	□ cold weld
3.2 crystal enclosure medium	
□ nitrogen ■ vacuum	\square dry air
4.Dimension:	. , .
	UNIT:mm
(TOP VIEW)	(SIDE VIEW)
3,2±3,10	0.7±0.10 0.55±0.08
4	3 0.08±0.02
	LID.
JYYYM JYYYM	
xxx.xxx	
<u> </u>	
1 (BOTTOM VIEW)	(CONNECTION)
R0.2	GND
0.3x45°	
3 +	
4 3 3	
0,1	(Recommended Soldering Pattern)
MARK	14 08 14
JYYYM XXX.XXX	/27/21 1 12/27 1
NOTE: YY=LAST TWO DIGITS OF YEAR	
M=MONTH CODE.	 + 3
XXX, XXX=FREQUENCY	
MONTH CODE	
Jan Fer Mar Apr May Jan Jul Aug Sep Oct Nov Dec A B C D E F G H I J K L	
	同方国芯-晶源电子
V1.0 初版 24以2 2012-8-1	
版本修改内容 批 准 日 期	M 和 与 3
设计 家承生 2012-8-1 审核 323 2012-8-1	阶段标记 重量 比例 16:1
批准 22以多 2012-8-1	共1张 第1张 JY/TS2-0011-JL0918
5. Marking	
	Marking
Last Marking — Ilik i	viaming



Tong fang Guoxin Electronics Co.,Ltd





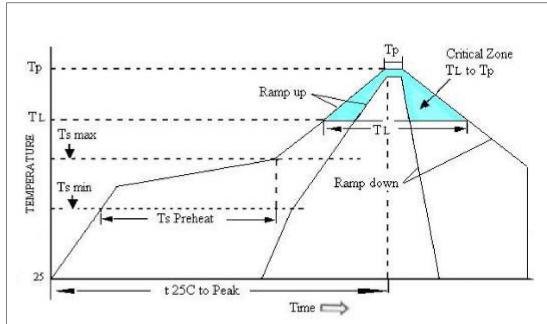
8. Reliability characteristic:

	Item	Condition	Specifications
8.1	Solderability	Solder bath temperature:260 , dwell time:5 seconds, Solder: 100% tin	A new uniform coating of solder shall cover a minimum of 95% of the surface being immersed.
8.2	Resistance to soldering heat	Solder temperature 260+/-3 ,Immersion time:10 S Solder bath composition:100% tin	△F +/-5ppm △R +/-15%+3
8.3	Vibration	The entire frequency range: 10Hz to 55Hz ,Amplitude:1.5mm This motion shall be applied for a period of 2 h in each of 3 mutually perpendicular axes(a total of 6h)	△F +/-5ppm △R +/-15%+3
8.4	Drop test	Drop from 75cm height on 3cm hard wooden board for 6 times	△F +/-5ppm △ R +/-15%+3
8.5	Cold Storage	The quartz crystal unit shall be stored at a temperature of -40+/-3 for 1000 h.then it shall be subjected to standard atmospheric conditions for 1h after which measurement shall be made.	△F +/-5ppm △R +/-15%+3
8.6	High temperature high humidity storage (steady state)	The quartz crystal unit shall be stored at a temperature of 40+/-2 with relative humidity of 95% for 1000h, then it shall be subjected to standard atmospheric conditions for 2h after which measurement shall be made.	△F +/-5ppm △R +/-15%+3

8.7	Thermal shock	The quartz crystal unit shall be subjected to 50			△F +/-5ppm
		succ	essive		△R +/-15%+3
		Char	nge of temperature cycles. Each	as shown in table	
		belov	w ,then it shall be subject	cted to standard	
		atmo	spheric conditions for 1h after w	hich measurement	
		shall	be made.		
			Temperature	Duration	
		1	-40+/-3	15minutes	
		2.	100+/-2	15minutes	
		3.	Transition time	Within 10	
				seconds	
			ım leakage detector shall use		Leakage rate
8.8	Sealing		age rate of gas through	1*10 ⁻⁹ Pa.m ³ /S	
		Pressure:500Kpa, duration:120 minutes			
8.9	High	The	quartz crystal unit shall be store	△F +/-5ppm	
	temperature	of 8	5+/-3 for 720h ,then it sha	△R +/-15%+3	
	Life test	stand	dard atmospheric condition fo		
		mea	surement shall be made.		

9.All products are RoHs compliant

10. Reflow Profile



High Temperature Infrared /Convection

Note: Temperature shown are applied to body of device

Ts max to T _L (Ramp-up Rate)	3 /second max		
Preheat			
Temperature Min(Ts Min)	150		
Temperature Typical(Ts Typ)	175		
Temperature Max.(Ts Max)	200		
Time(ts)	60-180 seconds		
Ram-up Rate(T _L to Tp)	3 /second Max		
Time Maintained Above:			
Temperature(T _L)	217		
Time(T _L)	60-150seconds		
Peak Temperature (Tp)	260 Max for 10 seconds		
Time within 5 of actual peak(tp)	20-40 seconds		
Ramp-down Rate	6 /seconds Max		
Tune 25 to Peak Temperature(t)	8 minutes Max		
Moisture Sensitivity Level	Level 1		

High Temperature Manual Soldering

Note:Temperature shown are applied to body of device

260 Max for 10 seconds Max, 2 times Max