



Specification No.
纳入仕样数书番号 20191125-17

CRYSTAL UNIT RESONATOR SPECIFICATION

石英晶体元件规格书

Customer :

咨询厂商 : GKK LIMITED

Item : CRYSTAL UNIT

品名 : 水晶振荡器

Type :

形名 : SMD7050B

Nominal Frequency:

标称频率 : 12M000000Hz

Customer's Spec. No.

贵司仕样书番号 : CS-7050B-C12QSA-12.0000

Shenyi Spec. No.

Receipt
贵司受领印栏

1. 弊司仕样书番号 : CSPXO191125-17

Factory : Shenzhen Pengfei Technological Co., Ltd.

生产公司 : 深圳市鹏飞科技有限公司

FOR SHENYI

Drawn 制表	Checked 审核	Manager 经理
陶 玲		

公 司 : 深圳市鹏飞科技有限公司

Factory : Shenzhen Pengfei Technological Co., Ltd

地 址 : 深圳市福田区新洲路新洲大厦 A 栋 1701/08 室

Address : ROOM 1701/08, A FLAT, XINZHOU BUILDING, XINZHOU ROAD,
FUTIAN DISTRICT, SHENZHEN

网 址 : <http://www.cspxo.cn>

邮 箱 : sales@cspxo.cn

电 话 : 86-755-26547328

传 真 : 86-755-2654 7711

CUSTOMER : GKK LIMITED

PRODUCT TYPE : SMD SEAM SEALING X'TAL 7.0*5.0

NOMINAL FREQ. : 12.0000MHz

TANG P/N :

REVISION :

CUSTOMER P/N :

PM / SALES :

DATE :

CUSTOMER SIGNATURE & Date

- (1) Tang requires one copy returned with signature and title of authorized individual that signifies acceptance of the attached specifications.
- (2) Orders received and accepted by Tang after return of signed copy of specification will be produced per these specifications.
- (3) Any changes to these specifications must be agreed upon by both parties and new revision of the Product Specification Sheet will be issued.
- (4) Any issuance of purchase order prior to consigning back the Approval page of "Specification Sheets" from customers will be regarded as the agreement on the contents of these specifications.

Attachment: Product Specification Sheet

- 1
- 2
- 3
- 4
- 5

RoHS Compliant

<u>Rev</u>	<u>Revise page</u>	<u>Revise contents</u>	<u>Date</u>	<u>Ref.No.</u>	<u>Reviser</u>

ELECTRICAL SPECIFICATIONS

Standard atmospheric conditions

Unless otherwise specified, the standard range of atmospheric conditions for making measurement and tests are as follow:

Ambient temperature : 25±5
Relative humidity : 40%~70%

If there is any doubt about the results, measurement shall be made within the following limits:

Ambient temperature : 25±3
Relative humidity : 40%~70%

Measure equipment

Electrical characteristics measured by HP E5100A or equivalent.

Crystal cutting type

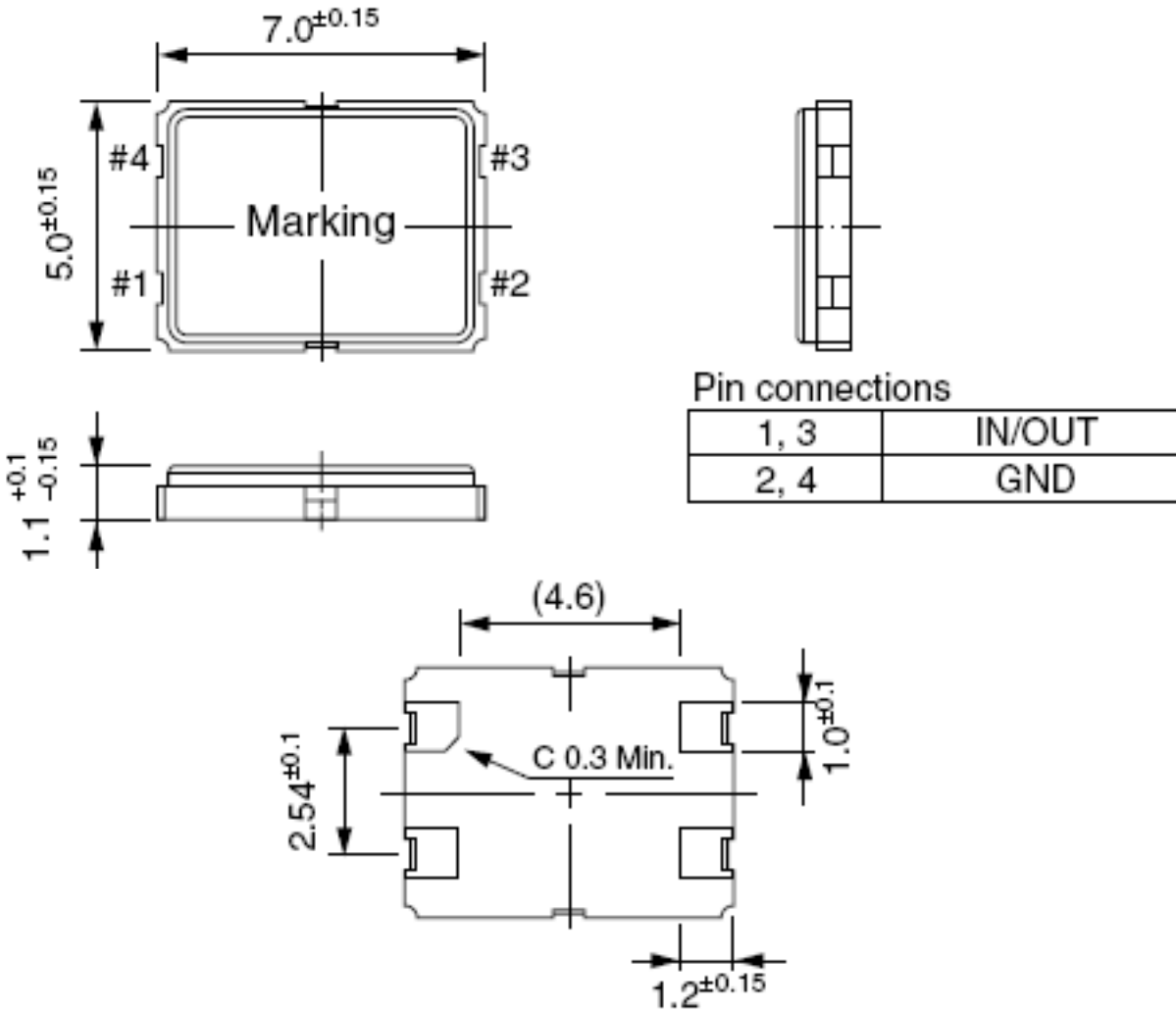
The crystal is using AT CUT (thickness shear mode).

Unit Weight:

0.018±0.001 g/pcs

	Parameters	SYM.	Electrical Spec.				Notes
			MIN	TYPE	MAX	UNITS	
1	Nominal Frequency	FL	12.0000			MHz	-
2	Oscillation Mode	-	Fundamental			-	-
3	Load Capacitance	CL	12			pF	-
4	Frequency Tolerance	-	±20			ppm	at 25 ± 3
5	Frequency Tolerance	-	±30			ppm	Over Operating Temp. Range (Reference 25)
6	Operating Temperature	-	-20	~	70		-
7	Aging	-	±3			ppm	1st Year
8	Drive Level	DL	-	100	-	uW	-
9	Effective Resistance Rr	Rr	-	-	50	Ω	-
10	Shunt Capacitance C0	C0	-	-	5	pF	-
11	Insulation Resistance	-	500	-	-	MΩ	at DC 100V
12	Storage Temperature Range	-	-40	~	85		-

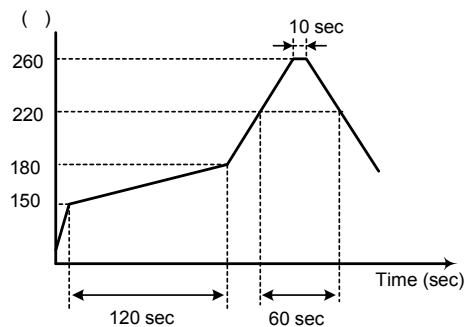
DIMENSIONS



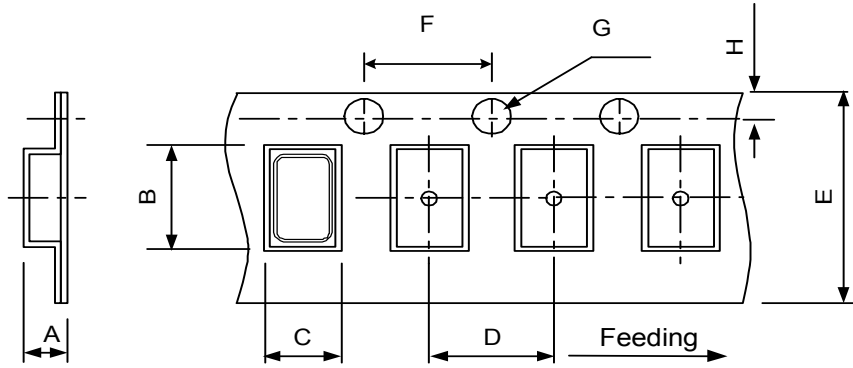
Production location: Taiwan

SUGGESTED REFLOW PROFILE

Total time : 200 sec. Max.
 Solder melting point : 220

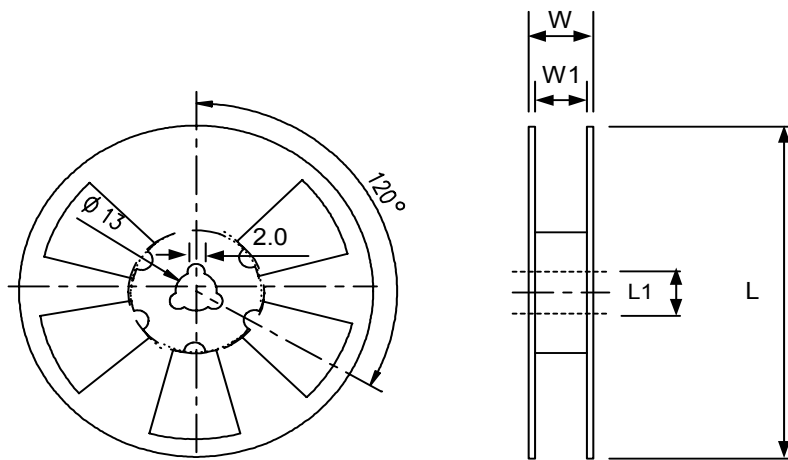
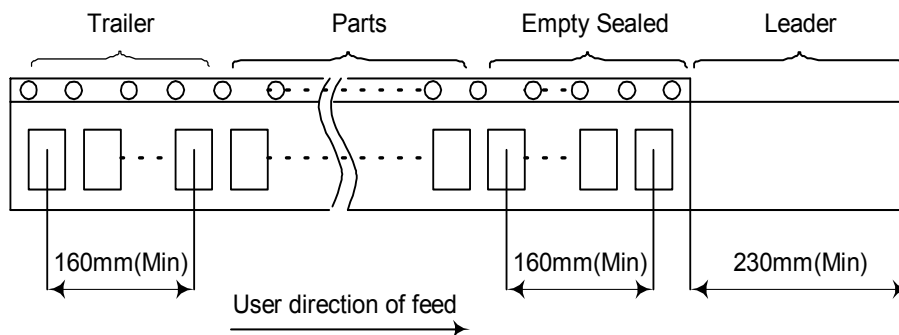


PACKING : (EIA-481-2)



DIMENSIONS	A	B	C	D	E	F	G	H	(UNIT : mm)
	1.25	7.50	5.50	8.00	16.00	8.00	1.50	1.75	

REMARK :



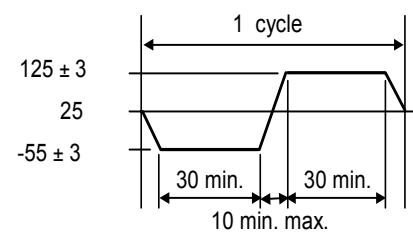
DIMENSIONS	L	L1	W	W1	pcs / Reel (UNIT : mm)
	248	13	21.0	17	Standard Reel Quantity is 1,000 pcs per reel

RELIABILITY SPECIFICATIONS

1.Mechanical Endurance

No.	Test Item	Test Methods	REF.DOC
1.1	Drop Test	150 cm height, 3 times on concrete floor.	JIS C6701
1.2	Mechanical Shock	Device are shocked to half sine wave (1000 G) three mutually perpendicular axes each 3 times. 0.5m sec. duration time	MIL-STD-202F
1.3	Vibration	Frequency range 10 ~ 2000 Hz Amplitude 1.52 mm/20G Sweep time 20 minute Perpendicular axes each test time 4 hours (Total test time 12 hours)	MIL-STD-883E
1.4	Gross Leak	Standard Sample For Automatic Gross Leak Detector, Test Pressure: 2Kg / cm ²	MIL-STD-883E
1.5	Fine Leak	Helium Bombing 4.5 Kg/ cm ² for 2 hr	
1.6	Solder ability	Temperature 245 ± 5 Immersing depth 0.5 mm minimum Immersion time 5 ± 1 seconds Flux Rosin resin methyl alcohol solvent (1 : 4)	MIL-STD-883E

2.Environmental Endurance

No.	Test Item	Test Methods	REF. DOC
2.1	Resistance To Soldering Heat	Pre-heat temperature 125 Pre-heat time 60 ~ 120 sec. Test temperature 260 ± 5 Test time 10 ± 1 sec.	MIL-STD-202F
2.2	High Temp. Storage	+ 125 ± 3 for 500 ± 12 hours	MIL-STD-883E
2.3	Low Temp. Storage	- 40 ± 3 for 500 ± 12 hours	
2.4	Thermal Shock	Total 100 cycles of the following temperature cycle 	MIL-STD-883E
2.5	High Temp & Humidity	85 ± 3 , RH 85% , 500Hrs	JIS C5023
2.6	Pressure Cooker Storage	121 ± 3 , RH100% , 2 bar , 240Hrs	JIS C6701