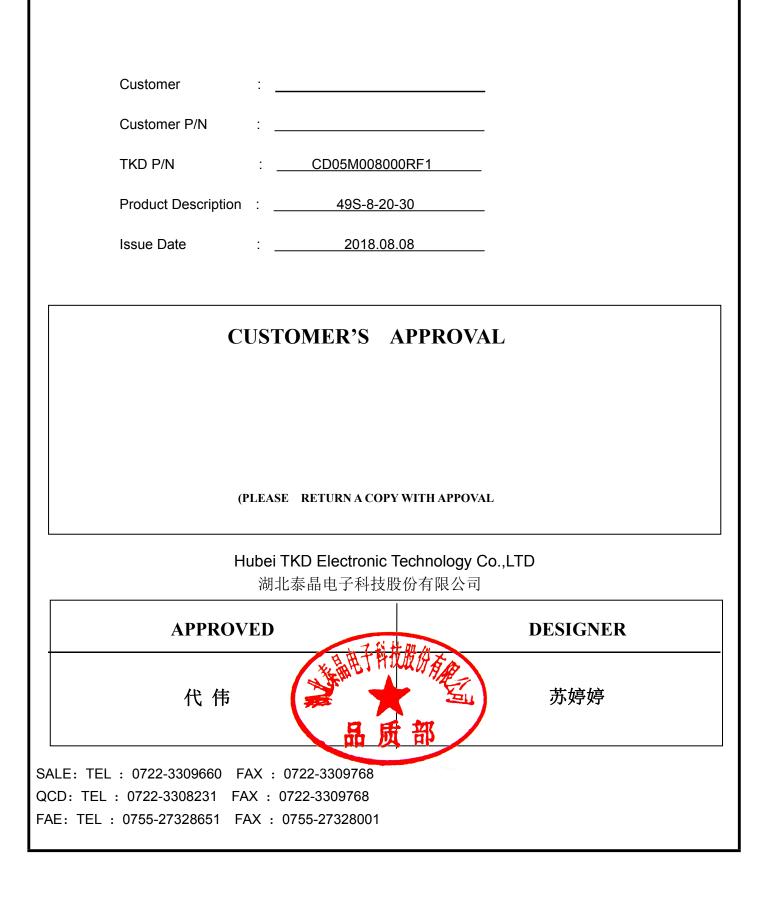


CRYSTAL SPECIFICATION





REV.	Description of Revision History	Date	Designer	Checked By
A	New revision	<u>2018-08-08</u>	Sutingting	<u>DaiWei</u>
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CRYSTAL SPECIFICATION

- 1. Description:
- Quartz Crystal 8.000000MHz 2. Nominal Frequency:
- 3. Oscillation Mode: Fundamental
- 4. Cutting Mode:
- Measurement Instrument: S&A 250B(Measured FL) 5.

AT cut

6. **Electrical Characteristics:**

[1]Operation Conditions:

Item	Symbol	MIN.	TYP.	MAX.	Unit	Condition
Operating Temperature Range	Topt	-10		60	°C	
Storage Temperature Range	Tstg	-20		70	°C	
Load Capacitance	CL		20		pF	
Drive Level	DL	0.1		100	uW	

[2]Frequency Stability:

Item	Symbol	MIN.	TYP.	MAX.	Unit	Condition
Tolerance	dF/Fo	-30		30	ppm	Refer to Center Frequency@25±3°C
Stability Over Temperature	dF/F25	-30		30	ppm	Refer to Operating Temperature
Aging	dF/F25	-3		3	ppm	Per Year

dF/Fo:Frequency Deviation Refer to Center Frequency

dF/F25:Frequency Deviation Refer to 25°C Frequency

[3]Electrical Performance:

Item	Symbol	MIN.	TYP.	MAX.	Unit	Condition
Equivalent Series Resistance	ESR			80	Ω	@Series
Shunt Capacitance	C0			7	pF	
Insulation Resistance	IR	500			MΩ	@DC 100 Volt

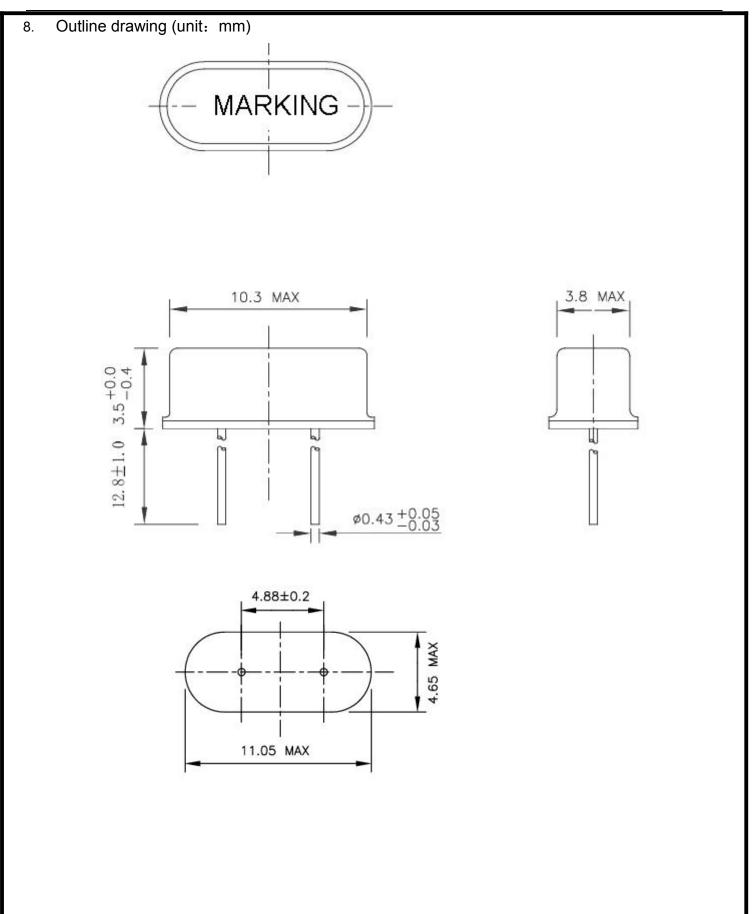
Marking:Laser 7.

TKD :Company Logo

8.000:Nominal Frequency







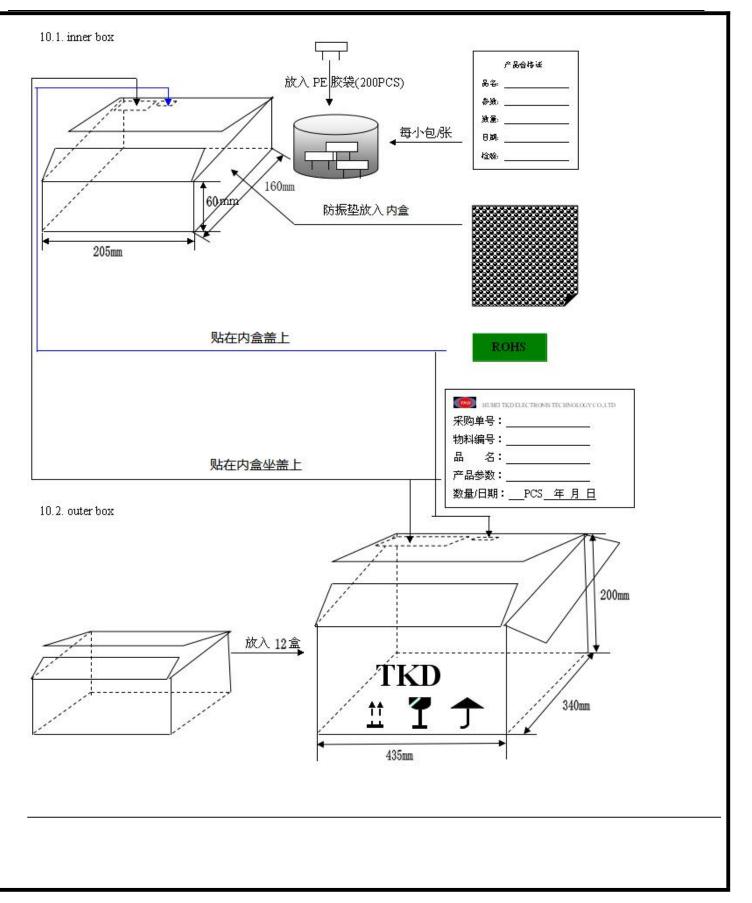


9. Reliability	Specification							
Test Item	Condition of test	Performance						
		Requirements						
Tensile Strength	The unit's lead wire should withstand a tensile force applied to the							
Termination	termination in the direction of its draw-out axis of up to 1000g	abnormalities detected on						
	maintained as is for 10±2s	the unit						
Solder ability	The lead is immersed in a 235 \pm 5 $^{\circ}$ C solder bath within 2 \pm 0.5	A new uniform coating of						
	seconds.	solder shall cover min						
		mun 95% of the surface						
		being immersed.						
Vibration	Endurance condition by a frequency sweep shall be made. The	(1).Frequency						
	entire frequency range from 10HZ to 50HZ and return to	Change:±5ppm						
	10HZ, shall be transverseb in 1min. Amplitude(total	(2).Resistance:±15%						
	excursion):1.5mm this motion shall be applied for a period of 2h							
	each of 3 mutually perpendicular axes(a total of 6h)							
Drop	Form 70cm height 3 times on 3cm hard wooden floor	(1).Frequency						
		Change:±5ppm						
		(2).Resistance:±15%						
Shock	Peak acceleration:981m/s ² duration of the pulse :6ms three	(1).Frequency						
	successive shocks shall be applied in both direction of 3 mutually	Change:±5ppm						
	perpendicular axes(a total of 18 shocks)	(2).Resistance:±15%						
Damp heat	The unit shall be stored at a temperature of 40±2°C with relative	(1).Frequency						
	humidity of 90%to95% for 48h, then it shall be subjected to	Change:±5ppm						
	standard atmospheric conditions for 1 \sim 2h after which	(2).Resistance:±15%						
	measurement shall be made.							
Dry heat	The unit shall be stored at a temperature of $100^{\circ}C\pm5^{\circ}C$ for 24h							
	then it shall be subjected to standard atmospheric conditions fo	U						
	$1 \sim 2h$ after which measurement shall be made.	(2).Resistance:±15%						
Cold	The unit shall be stored at a temperature of 40 $^\circ\!\mathrm{C}\pm5^\circ\!\mathrm{C}$ for 48h, then	(1).Frequency						
	it shall be subjected to standard atmospheric conditions for $1 \sim 2h$	Change:±5ppm						
	after which measurement shall be made.	(2).Resistance:±15%						
Aging	The unit shall be stored at a temperature of $85^{\circ}C \pm 5^{\circ}C$ for 7d then it	Refer to verdict						
	shall be subjected to standard atmospheric conditions for $1 \sim 2h$	specification						
	after which measurement shall be made.							
Temperature	The unit shall be subjected to 5 successive change of temperature							
cycling	cycles, each as show in table below, then it shall be subjected to	specification						
	standard atmospheric conditions for 1 \sim 2h after which							
	measurement shall be made							
	Temperature Duration							
	1 -40℃±3℃ 30min							
	2 Standard atmospheric Within 30s							
	conditions							
	3 100℃±3℃ 30min							
	4 Standard atmospheric Within 30s							
	conditions							



Test Item	Condition of test	Performa Requirem		
Sealing	The crystal filter unit shall be immersed in a industry alcohol for	Insulation		
J J	5±0.5 minutes then 25±3℃ 1~2 Hr before testing	Resistance>		
Resistance to		Refer to	verdict	
soldering heat	PEAK 10S MAX 265 0 0 0 0 0 0 0 0 0 0 0 0 0	specification		





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