CRYSTAL SPECIFICATION

Customer	: _	华强聚丰	-	_
Customer P/N	: _			_
TKD P/N	: .	CD05M006000)RD1	_
Product Description	: _	495-6-20-20	0	_
Issue Date	: _	2018.12.28	_	
C	UST	FOMER'S APP	ROVAL	
APPROVAL	1	CHECKED		ONFORM
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	- 例-		IRCA -J	
APPROV				DESIGNER
				DESIGNER 苏婷婷





REV.	Description of Revision History	Date	Designer	Checked By
A	New revision	<u>2018-12-28</u>	Sutingting	DaiWei
			<u> </u>	



CRYSTAL SPECIFICATION

- 1. Description:
- Quartz Crystal 6.00000MHz Nominal Frequency:
- 2. 3. Oscillation Mode: Fundamental
- 4. Cutting Mode:
- Measurement Instrument: S&A 250B(Measured FL) 5.

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6. **Electrical Characteristics:**

[1]Operation Conditions:

Item	Symbol	MIN.	TYP.	MAX.	Unit	Condition
Operating Temperature Range	Topt	-40		85	°C	
Storage Temperature Range	Tstg	-55		105	°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	-20		20	ppm	Refer to Center Frequency@25±3℃
Stability Over Temperature	dF/F25	-30		30	ppm	Refer to Operating Temperature @-40~+85℃
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

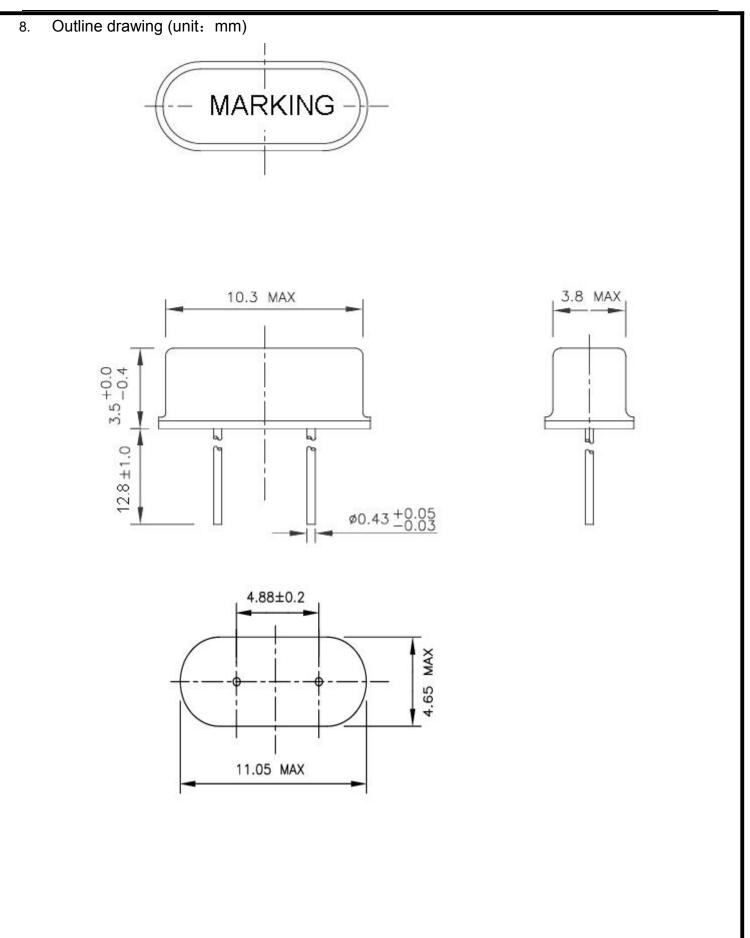
Marking:Laser 7.

TKD :Company Logo

6.000:Nominal Frequency

TKD6.000







9. Reliability	/ Specification								
Test Item	Condition of test	Performance							
iest item	Condition of test	Requirements							
Tensile Strength	The unit's lead wire should withstand a tensile force applied to the	There should be no							
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±5 $^\circ \!\! C$ solder bath within 2±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	• • • • •							
	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								
	humidity of 90%to95% for 48h, then it shall be subjected to	• • • • •							
	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°C±5°C for 24h,								
	then it shall be subjected to standard atmospheric conditions for	0 11							
Oald	$1 \sim 2h$ after which measurement shall be made.	(2).Resistance:±15%							
Cold	The unit shall be stored at a temperature of 40° C $\pm 5^{\circ}$ C for 48h, then (1). Frequency								
	it shall be subjected to standard atmospheric conditions for $1 \sim 2h$	• • • •							
Aging	after which measurement shall be made. (2).Resistance:±15%								
Aging	The unit shall be stored at a temperature of $85^{\circ}C\pm5^{\circ}C$ 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 Refer to verdict								
cycling	cycles, each as show in table below, then it shall be subjected to specification								
Cycinig	standard atmospheric conditions for 1 \sim 2h after which								
	measurement shall be made								
	Temperature Duration								
	$1 -40^{\circ}C \pm 3^{\circ}C \qquad 30^{\circ}Min$								
	2 Standard atmospheric Within 30s								
	conditions								
	3 100°C±3°C 30min								
	4 Standard atmospheric Within 30s								
	conditions								
		I							



