

CRYSTAL SEPECIFICATION

Customer : ____ 天 河 星

Customer P/N : _____

Part Name : <u>49S 10.7386M 18pF 20PPM</u>

Product Description : 49S 10.738600MHZ 18pF 20PPM

Issue Date : <u>2015.05.29</u>

CUSTOMER'S APPROVAL

APPROVAL	CHECKED	CONFORM

(PLEASE RETURN A COPY WITH APPOVAL

Hubei TKD Electronic Technology Co.,LTD

湖北泰晶电子科技股份有限公司

APPROVED	DESIGNER
黄祥秒	代伟

SALE: TEL: 0722-3309660 FAX: 0722-3309768 QCD: TEL: 0722-3308231 FAX: 0722-3309768 FAE: TEL: 0755-27328651 FAX: 0755-27328001



REV.	Description of Revision History	Date	Designer	Checked By
EV.	Description of Revision History New revision	Date 2015-05-29	Designer DaiWei	Checked By Huangx m



CRYSTAL SEPECIFICATION

Description: Quartz Crystal
 Nominal Frequency: 10.738600MHz
 Oscillation Mode: Fundamental

4. Cutting Mode: AT cut

5. Measurement Instrument: S&A 250B(Measured FL)

Electrical Characteristics:
 [1]Operation Conditions:

Item	Symbol	MIN.	TYP.	MAX.	Unit	Condition
Operating Temperature Range	Topt	-20		75	$^{\circ}$	
Storage Temperature Range	Tstg	-40		85	$^{\circ}$	
Load Capacitance	CL		18		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
Aging	dF/F25	-5		5	ppm	Per Year

dF/Fo:Frequency Deviation Refer to Center Frequency

dF/F25:Frequency Deviation Refer to 25℃ Frequency

[3] Electrical Performance:

Item	Symbol	MIN.	TYP.	MAX.	Unit	Condition
Equivalent Series Resistance	ESR			70	Ω	@Series
Shunt Capacitance	C0			5	pF	
Insulation Resistance	IR	500			МΩ	@DC 100 Volt

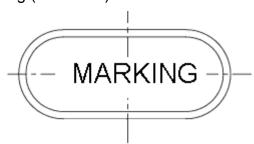
7. Marking:Laser

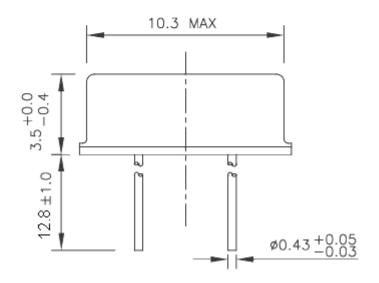
10.7386 : Nominal Frequency

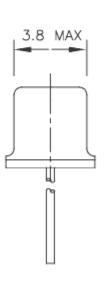
TKD10.7386

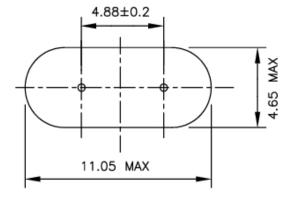


8. Outline drawing (unit: mm)









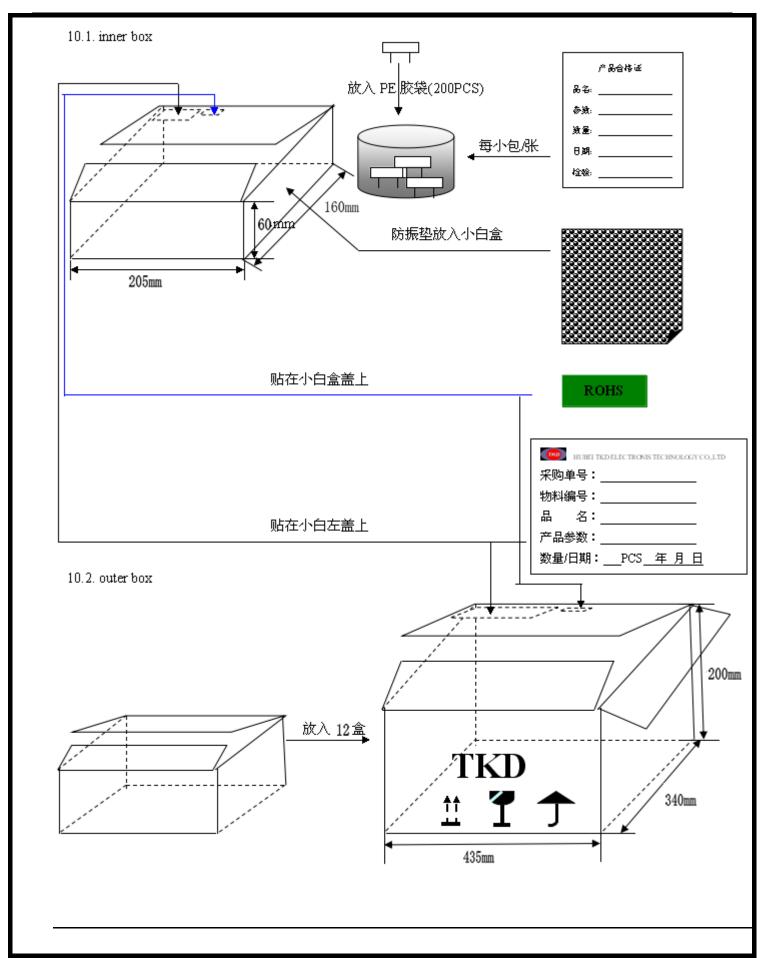


9. Reliability	y Specification			
Test Item	Condition of test	Performance Requirements		
Tensile Strength	The unit's lead wire should withstand a tensile force applied to the There	e should be no		
Termination		ormalities detected on		
	maintained as is for 10±2s the u			
Solder ability		w uniform coating of		
		er shall cover min		
		95% of the surface		
Vibration		g immersed. requency		
Vibration		nge:±5ppm		
		desistance:±15%		
	excursion):1.5mm this motion shall be applied for a period of 2h	CSIStarice.±1070		
	each of 3 mutually perpendicular axes(a total of 6h)			
Drop	` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	requency		
		nge:±5ppm		
	(2).R	esistance:±15%		
Shock	Peak acceleration:981m/s ² duration of the pulse :6ms three (1).F	(1).Frequency		
	successive shocks shall be applied in both direction of 3 mutually Char	Change:±5ppm		
		(2).Resistance:±15%		
Damp heat	·	requency		
		nge:±5ppm		
		esistance:±15%		
Dryboot	measurement shall be made.	roguenov		
Dry heat		requency		
		Change:±5ppm (2).Resistance:±15%		
Cold		requency		
Colu		nge:±5ppm		
	·	esistance:±15%		
Aging	The unit shall be stored at a temperature of 85°C±5°C for 7d then it Refe			
	shall be subjected to standard atmospheric conditions for 1~2h speci	ification		
	after which measurement shall be made.			
Temperature	The unit shall be subjected to 5 successive change of temperature Reference			
cycling		ification		
	standard atmospheric conditions for 1 \sim 2h after which			
	measurement shall be made			
	Temperature Duration			
	1 -40°C±3°C 30min			
	2 Standard atmospheric Within 30s conditions			
	3 100°C±3°C 30min			
	4 Standard atmospheric Within 30s			
	conditions			
	00.10.10.10			



Test Item	Condition of test	Performance Requirements
Sealing	The crystal filter unit shall be immersed in a industry alcohol for	Insulation
	5±0.5 minutes then 25±3°C 1~2 Hr before testing	Resistance>500MΩ
Resistance to soldering heat	PEAK 10S MAX	Refer to verdict specification
	200°C 200°C 150°C 150°C 25°C 150°C 25°C 150°C 25°C 25°C 25°C 25°C 25°C 25°C 25°C 25	
	Reflow soldering cure see the chart.	
	Soldering iron method: Bit temperature: 350°C±10°C	
	Application time of soldering iron:5s Max	





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