

深圳市晶科鑫实业有限公司

样品承认书

客户代码:		
物料名称:	49S 插件晶振	
规格型号:	49S 24.000MHZ 20PF ± 20 PM $-20^{\circ}\sim 70^{\circ}\text{C}$ 剪脚 $L=3.8\pm 0.3\text{mm}$	
P N/ SJK:	6BS24000F20UBGJJ	
环保属性:	☒ RoHS ☒ REACH ☒ HF ☐ PAHS ☐ 其它	
版 次:	A1 2017-6-10 初版	最小包装 1K/盒
湿敏等级:	一级	

承 认 签 章					
供 应 商 承 认			() 公 司 承 认		
制 定	审 核	核 准	工 程 师	审 核	批 准
贺丹斌	李相同	刘惠光			
SJK 支持			盖章签署		
FAE_EMAIL			日 期		
日 期			批示: ☐ 接受 ☐ 有条件接受		
备注:					

QUARTZ CRYSTAL UNIT



SERIES 6BS/SS, Resistance Welded HC-49S Package

FEATURE

- Surface mount type crystal units.
- A great number of standard frequencies.
- Higher frequency pullability and lower equivalent series resistance.
- Highly mass production capability.
- The best choice of TV,STB,LCDM and Cabbie Modem.
- RoHS Compliant/Pb Free.

ELECTRICAL SPECIFICATIONS

Nominal Frequency	24.000MHz
Mode	Fundamental
Frequency Tolerance (at 25°C)	±20ppm
Frequency Stability Over Operating Temperature Characteristics	±30ppm
Operating Temperature Range	-20°C to +70°C
Storage Temperature Range	-55°C to +125°C
Shunt Capacitance (C0)	≤7.0 PF Max
Driver Level (DL)	100μW Typical
Load Capacitance(CL)	20PF
Equivalent Series Resistance(ESR)	30Ω Max
Insulation resistance	More than 500MΩ AT DC100V
Aging @25°C first year (Max)	±3ppm/year

REMARK: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE,
PLEASE CONFIRM WITH OUR SALES ENGINEER.

Add: 12F, Bldg. 3C, TianAn Cloud Park Phase 1, Bantian, Longgang, Shenzhen, China

Tel: (86) 755 82507042

Fax: (86) 755 88353718

E-mail: sjk@q-crystal.com

Http://www.q-crystal.com

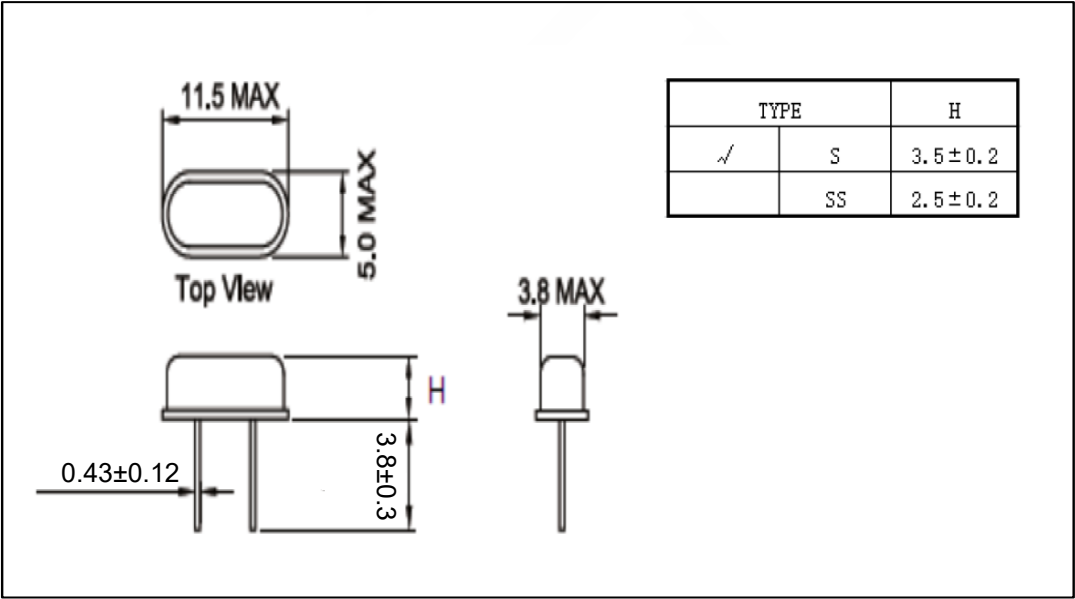
Page: 2/6

QUARTZ CRYSTAL UNIT



SERIES 6BS/SS, Resistance Welded HC-49S Package

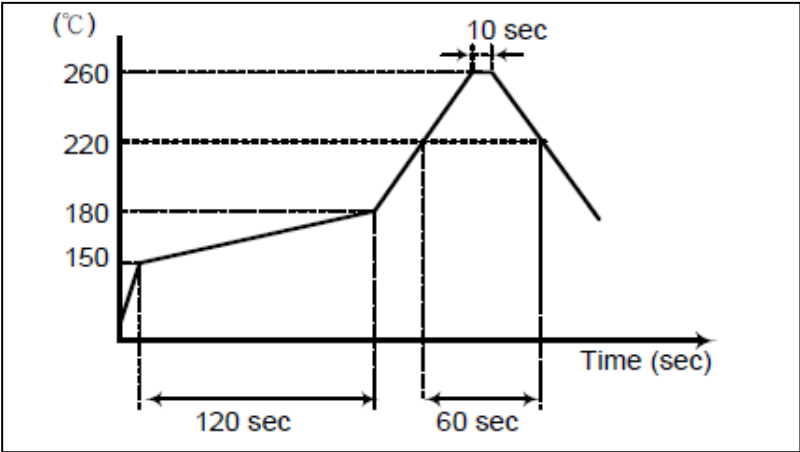
DIMENSION (Unit: mm)



MARK



REFLOW CONDITION



The reflow temperature profile may vary depending on the product model, specifications and frequency range. Refer to the individual product specifications for details

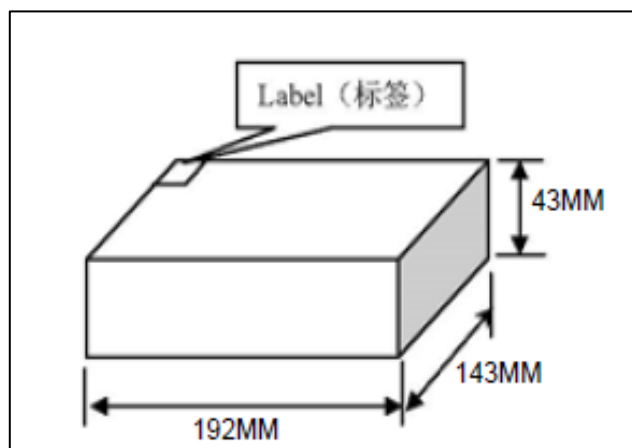
QUARTZ CRYSTAL UNIT



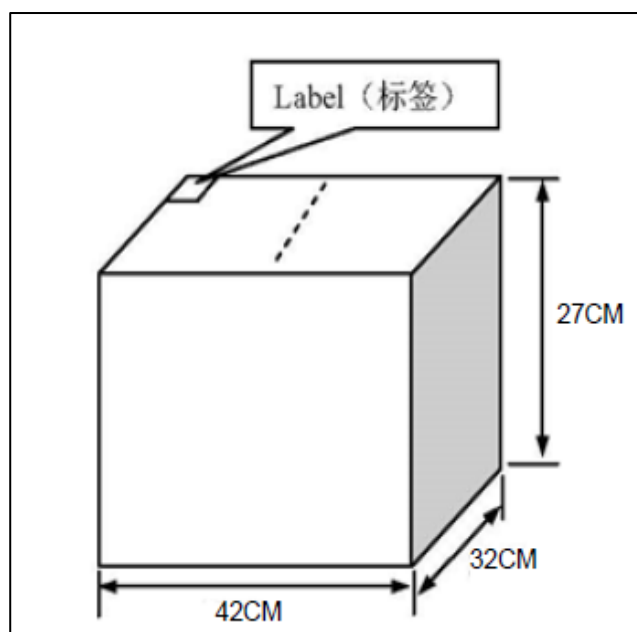
SERIES 6BS/SS, Resistance Welded HC-49S Package

PACKING METHOD

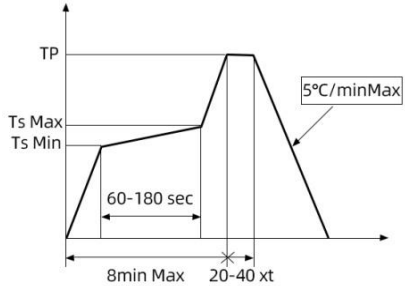
Box: Packed 200PCS in 1 vinyl bag. Packed 5 vinyl bag in 1 box



Carton: Packed 20 box in 1 carton, There are 20000Pcs in 1 carton.



RELIABILITY TEST SPECIFICATIONS

Test item	Equipment	Condition	Specification
1.SOLDERABILITY TEST	SJK-REL001、RC-328A	TP:260℃ TsMax: 200℃ TsMin: 150℃ 2 time 	MIL-STD-883E Method 2003.7
2. HERMETICITY TEST	HELIOT-306S	Pressurized 0.4~0.5Mpa ethanol sealed tank for 10 minutes	MIL-STD-883E Method 1014.10
3. VIBRATION TEST	HG-V4、S&A 250B	Enable Crystal(10g) from 10-55-10Hz,X、Y、Z horizontal,1 Minute vibration/time, 1time/ 2 hours.	MIL-STD-883E Method 2007.3
4. MECHANICAL SHOCK	HPC-200、S&A 250B	Enable Crystal 50G(490m/s ²) time=11 ms speed=3.4 m/s half sine wave oscillation	JIS C6701
5. DROP TEST	HARD BOARD.S&A250B	75cm High,3 times on hard board	MIL-STD-202F Method 213B
6. HIGH&LOW TEMP STORAGE TEST(Static test)	H-PTH-80CK & HM101-3ABN, S&A 350B/250B	High temperature: 125℃±2℃,1000hr; Low temperature:-40℃±3℃,1000hrs	MIL-STD883C, METHOD 1011.8
7. TEMP & HUM CYCLING TEST	H-PTH-80CK CHAMBE, S&A 350B/250B	Temperature:-10℃±2℃~65℃±2℃,Humidity:93±3%,1 cycle need 24 hrs. 5cycles.	MIL-STD-883E Method 1005.8
8. HIGH TEM. & HUM.STORAGE TEST	H-PTH-80CK CHAMBE, S&A350B/250B	Temperature:85℃±2, Humidity:85+3,-2%,Store 96 hrs	JIS C6701
9. AGING TEST	H-PTH-80CK CHAMBE, S&A350B/250	Temperature:85℃±2, Store 1000 hrs	JIS C5023

QUARTZ CRYSTAL UNIT



SERIES 6BS/SS, Resistance Welded HC-49S Package

REVISION RECORD (6BS24000F20UBGJJ)

Rev	Revise contents	Reason	Reviser	Checked	Approved
A1	Initial released	--	贺丹斌	李相同	刘惠光

Add: 12F, Bldg. 3C, TianAn Cloud Park Phase 1, Bantian, Longgang, Shenzhen, China

Tel: (86) 755 82507042

Fax: (86) 755 88353718

E-mail: sjk@q-crystal.com

Http://www.q-crystal.com

Page: 6/6