0 : 1.6×1.2×0.35 mm | SMD1612-4P

X : Crystal Resonator

Feature

- AT-cut Crystal Construction
- Ultra thin Seam sealed ceramic surface mount
- Package Size: 1.6 x 1.2 x 0.35 mm
- Pb-free and RoHS/Green compliant

Applications

- Audio Devices
- Portable devices
- Short-range Wireless module
- Computers, Modems, Microprocessors



Electrical Specifications

ltem	Symb.	Min.	Тур.	Max.	Unit	Notes
Frequency Range	Freq.	24.000		54.000	MHz	
Oscillation Mode		Fu	ndamenta	al (AT-cut))	
Frequency Tolerance	$\triangle f/f$			±10	ppm	at 25°C±2°C
Operating Temperature	T_use	-20		70	°C	
Operating Temperature		-40		85	°C	
StorageTemperature Range	T_sta	-55		125	°C	
Shunt Capacitance	C0			3	pF	
Drive Level	DL		10	100	μW	
Load Capacitance	CL	6		20	pF	
Insulation Resistance	IR			500	MΩ	at DC 100V
Aging	f_age			3	ppm	1st. Year at 25°C

Frequency Stability & Operating Temperature Range

FT Temp.	±10ppm	±15ppm	±20ppm	±30ppm
-20°C to +70°C	\bigtriangleup	*	*	*
-40°C to +85°C		\triangle	*	*

★: Available △: Conditional

Equivalent Series Resistance

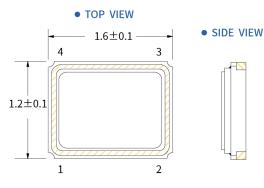
Frequency Range	ESR(Max.)
24MHz≤ Freq. <32MHz	200 Ω
32MHz≤ Freq. <36MHz	100 Ω
36MHz≪ Freq. ≪54MHz	80 Ω



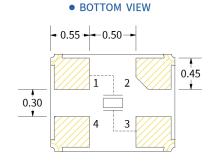
0 : 1.6×1.2×0.35 mm | SMD1612-4P

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Dimensions (UNIT:mm)

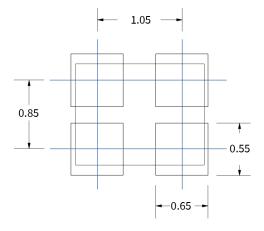




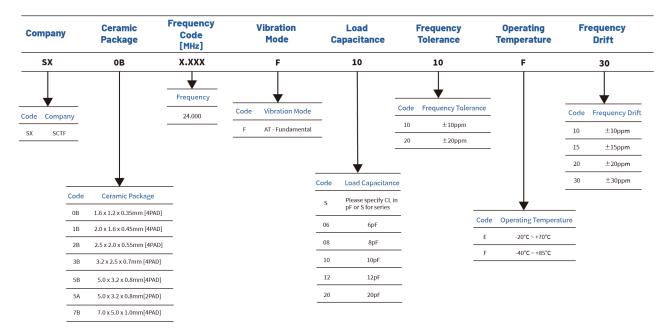


Pin	Function
1	Xtal
2	GND
3	Xtal
4	GND

Solder pad layout (UNIT:mm)



Options and Part Identification : Example SX0B24.000F1010F30



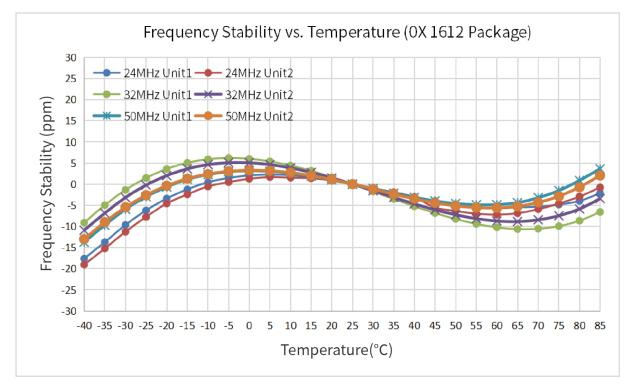
If you have other parameter requirements, you can contact SCTF at any time.



0 : 1.6×1.2×0.35 mm | SMD1612-4P

X : Crystal Resonator

Frequency Temperature Characteristics

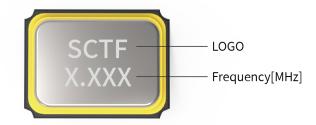


Product Structure&Marking Information

• Product Structure



• Marking Information



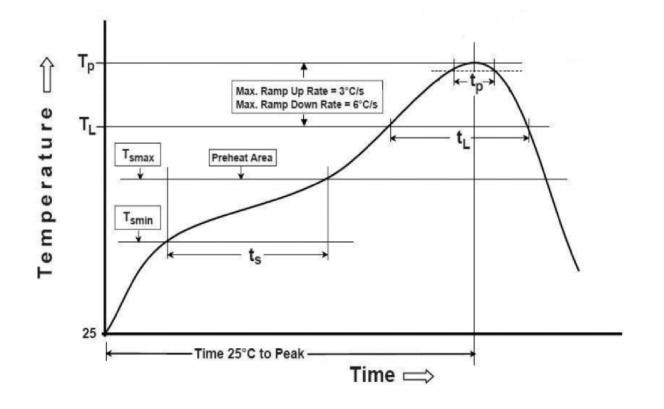


更新日期: 2024年9月30日

0 : 1.6×1.2×0.35 mm | SMD1612-4P

2-4P X : Crystal Resonator

Suggested Reflow Profile



Profile Feature	Sn - Pb Eutectic Assembly	Preheat / Soak			
Preheat / Soak • Temperature Min (Ts min) • Temperature Max (Ts max) • Time (Ts min to Ts max)	100°C 150°C 60-120 seconds	150°C 200°C 60-120 seconds			
Ramp - up rate (TL to Tp)	3°C/ second max.	3°C/ second max.			
Time maintained above ● Liquidous temperature (TL) ● Time (tL) maintained above TL	183°C 60-150 seconds	217°C 60-150 seconds			
Peak package body temperature (Tp)	235°C	260°C			
Time within 5° C of the specified classification temperature (Tp)	20 seconds	30 seconds			
Ramp - down rate (Tp to TL)	6°C/ second max.	6°C/ second max.			
Time 25° C to peak temperature	6 minutes max.	8 minutes max.			
Suggust reflow times	2 Times max.				



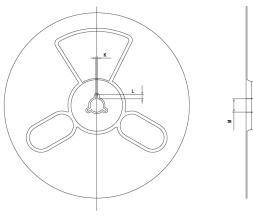
0:1.6×1.2×0.35 mm | SMD1612-4P

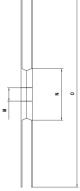
X: Crystal Resonator

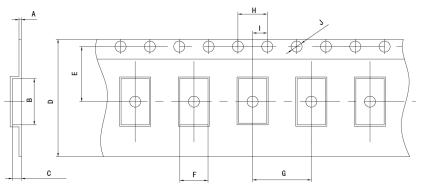
Packaging Information

T=Tape and reel (3,000pcs/reel)









Pocket Tape Dimensions(mm)

Se	eries	А	В	с	D	E	F	G	Н	I	J	К	L	М	N	0
	ох	0.25±0.05	1.85±0.1	0.45±0.1	8.0±0.3	3.5±0.1	1.45±0.1	4.0±0.1	4.0±0.1	2.0±0.1	φ1.5±0.1	2.0±0.2	4.0±1.0	φ13±0.5	φ60±1	φ180±1

Common Frequencies – MHz

0X Series								
24.000	24.305	24.576	25.000	26.000				
27.000	27.120	30.000	32.000	37.400				
38.400	40.000	48.000	50.000	52.000				
54.000								



单击下面可查看定价,库存,交付和生命周期等信息

>>SCTF(星通时频)