

Crystal Resonators

SMD kHz 8.0×3.8×2.5mm 6LC Series



SPECIFICATION

PN: KSE-6LC32768KDY240ZA3

Crystal Resonators

SMD kHz 8.0×3.8×2.5mm 6LC Series

FEATURE

- High-density mounting-type SMD
- Photolithography finished allows uniform and stable performance.
- Excellent reliability and environmental capability.
- RoHS Compliant / Pb Free.

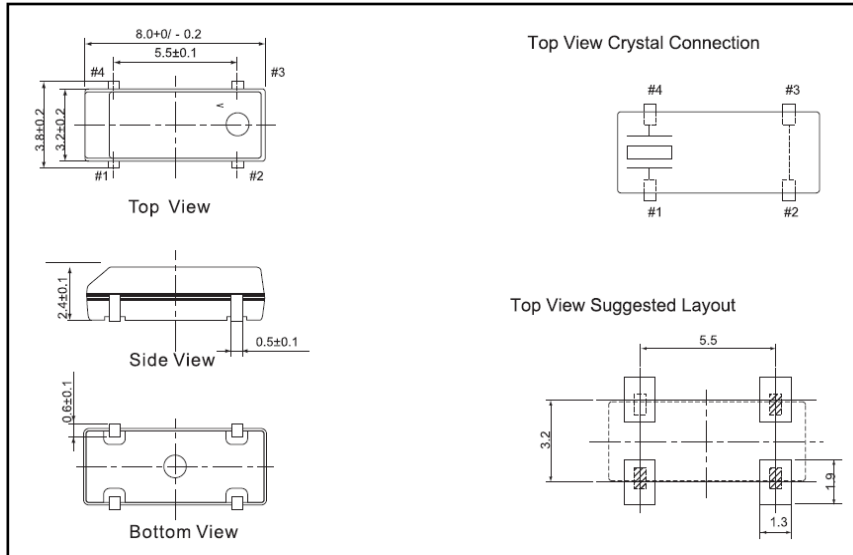
ELECTRICAL SPECIFICATIONS (电气参数)

Frequency range	32.768KHz
Frequency Tolerance (at 25°C)	±20ppm
ESR	50KΩ Max
Turnover Temperature	25 ± 5°C
Frequency Temperature Curve	-0.034(±0.005)ppm/°C ²
Operable Temperature Range	-40 °C to + 85 °C
Storage Temperature Range	-55 °C to +125 °C
Shunt Capacitance (C0)	1.3pF Typ
Dynamic Capacitance (C1)	2.4fF Typ
Driver Level (Typical)	1 μW Max
Load Capacitance(CL)	12.5PF
Aging @25°C 1st year (Max)	±3ppm/year

Crystal Resonators

SMD kHz 8.0×3.8×2.5mm 6LC Series

Dimension (尺寸) (Unit: mm)

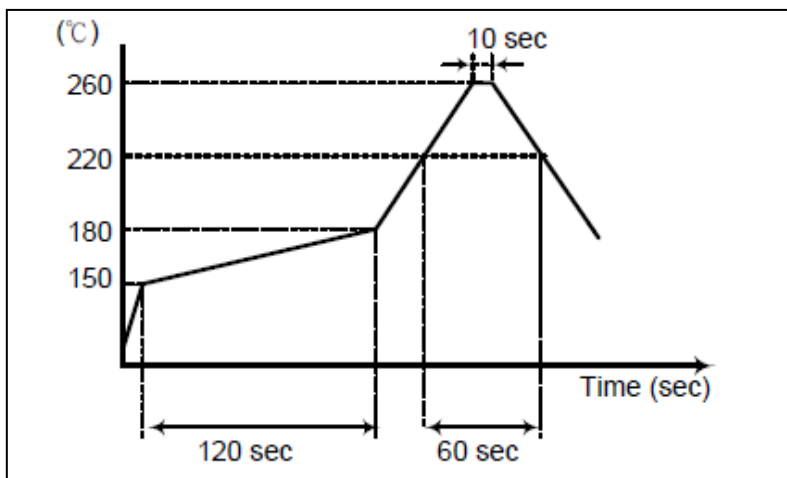


Marking:

32S***

*** = date code

REFLOW CONDITION (回流焊)

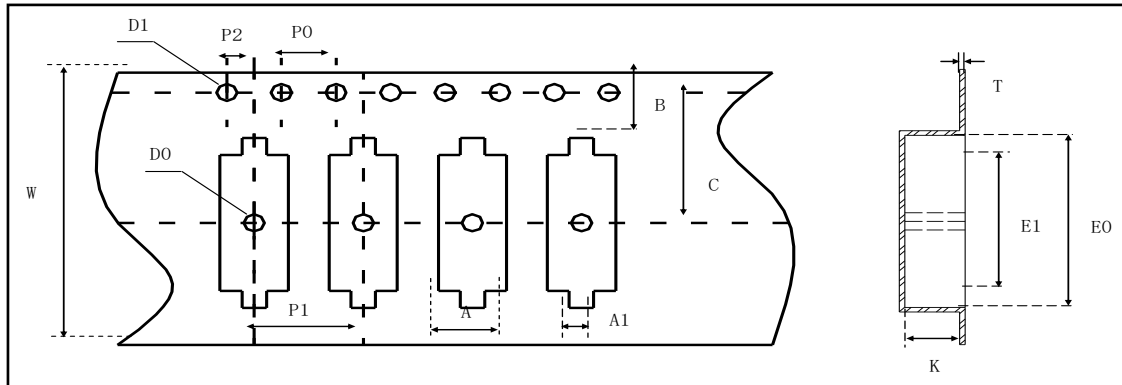


The reflow temperature profile may vary depending on the product model, specifications and frequency range. Refer to the individual product specifications for details

Crystal Resonators

SMD kHz 8.0×3.8×2.5mm 6LC Series

CARRIER TYPE (載帶)



Symbol	A	A1	B	C	Do	E0	E1
49SMD	5.0±0.2	1.8±0.1	5.25±0.2	11.5±0.1	1.5±0.1	15.0±0.1	12.0±0.1
308C	4.05±0.1	/	5.0±0.2	7.5±0.1	1.6±0.1	8.30±0.30	8.0±0.1
Symbol	P0	P1	P2	W	T	K	
49SMD	4.0±0.1	12.0±0.1	2.0±0.1	24.0±0.5	0.4±0.05	4.35±0.2	
308C	4.0±0.1	8.0±0.1	2.0±0.1	16.0±0.3	0.3±0.05	2.7±0.1	

Crystal Resonators

SMD kHz 8.0×3.8×2.5mm 6LC Series

RELIABILITY TEST SPECIFICATIONS (可靠性测试标准)

Test item	Equipment	Condition	Specification
1.SOLDERABILITY TEST	KSE-REL001、RC-328A	1.Solderability:235±5℃, 5±0.5S 2.Heat resistance:260±5℃,10±1S restoration of 1 hour	MIL-STD-883E Method 2003.7
2. HERMETICITY TEST	HELIOT-306S	FC-84 FLUOROCARBON,BUBBLE MACHINE	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/s2) 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:40℃±2, Humidity:85+3,-2%,Store 96 hrs	JIS C6701
9.AGING TEST	H-PTH-80CK CHAMBE, S&A350B/250	Temperature:40℃±2, Humidity:85+3,-2%,Store 96 hrs	JIS C5023