



SPECIFICATION

KSE-7U32000MAF143ZA3

Crystal Resonators SMD Seam 3.2×2.5×0.7mm 7U Series

FEATURE

- Reliable seam sealed ceramic package.
- Wide operating temperature range.
- Superior performance and stringent reliability in harsh environment.
- Application: TPMS, ECM, ABS and sensor modules.
- Compact size.
- RoHS Compliant / Pb Free.

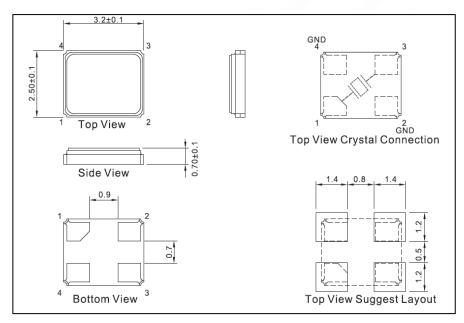
ELECTRICAL SPECIFICATIONS

Nominal Frequency	32.000MHz	
Mode	AT/Fundamental	
Frequency Tolerance (at 25°C)	±10ppm	
Frequency Stability Over Operating	±30ppm	
Temperature Characteristics		
Operating Temperature Range	-40°C to +85°C	
Storage Temperature Range	-55°C to +125°C	
Shunt Capacitance (C0)	3.0 PF Max	
Driver Level (DL)	100μW Typical	
Load Capacitance(CL)	16PF	
Equivalent Series Resistance(ESR)	60Ω Max	
Aging @25°C first year (Max)	±3ppm/year	

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

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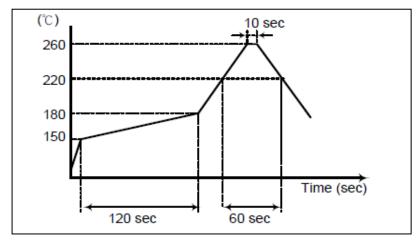
DIMENSION (Unit: mm)



MARK

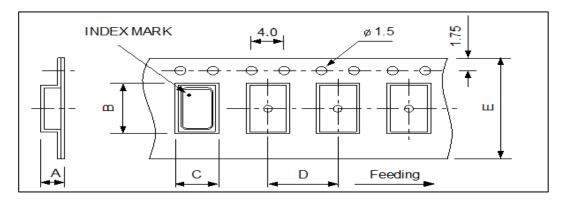


REFLOW CONDITION

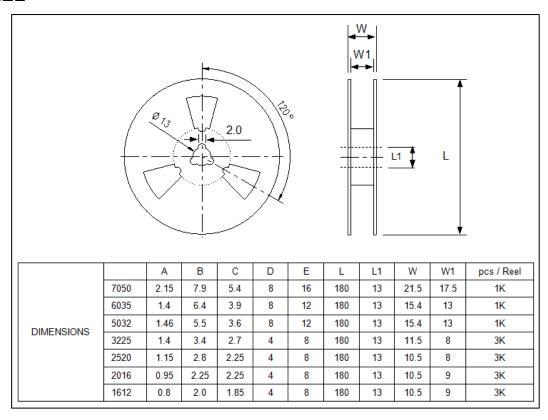


The reflow temperature profile may vary depending on the product model, specifications and frequency range. Refer to the individual product specifications for details

CARRIER TYPE



REEL



RELIABILITY TEST SPECIFICA TIONS

Test item	Equipment	Condition	Specification
1.SOLDERABILITY TEST	SK-REL001、RC-328A	TP:260°C TsMax: 200°C TsMin: 150°C 2 time TP Ts Max Ts Min 60-180 sec 8min Max 20-40 xt	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/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°C±2°C,1000hr; Low temperature:-40°C±3°C,1000hrs	MIL-STD883C, METHOD 1011.8
7. TEMP &HUM CYCLING TEST	H-PTH-80CK CHAMBE, S&A 350B/250B	Temperature:-10°C±2°C \sim 65°C±2°C,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°C±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