

QUARTZ CRYSTAL UNIT IN CERAMIC SEAM SEAL SMD PACKAGE, SIZE 2.0 X 1.6MM.

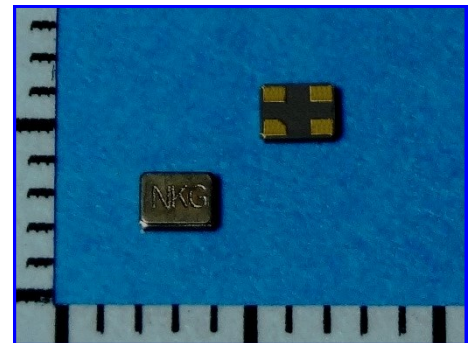
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PRODUCT FEATURES

- MINIATURE PACKAGE SIZE 2.0 X 1.6 X 0.5MM WITH 4 PADS.
- EXCELLENT HEAT AND SHOCK RESISTANCE.
- HIGHLY RELIABLE AND LOW AGING DUE TO VACUUM SEAL.
- AUTOMOTIVE GRADE COMPLIANT TO AEC-Q200 IS AVAILABLE.

APPLICATIONS

- WIRELESS, BLUETOOTH
- MOBIL COMMUNICATION
- PORTABLE DEVICES
- USB MEMORY DEVICES.



PRODUCT SPECIFICATIONS

PARAMETER	SYMBOL	SPECIFICATIONS	REMARKS
FREQUENCY RANGE	F_N	16.0 ~ 60.0MHZ	
OPERATION MODE	—	FUNDAMENTAL	
FREQUENCY TOLERANCE	$\Delta f/f$	$\pm 10\text{PPM}, \pm 20\text{PPM}, \pm 30\text{PPM}, \pm 50\text{PPM}$	OTHER OPTIONS AVAILABLE
STABILITY OVER OPERATING TEMP.	T_C	$\pm 10\text{PPM}, \pm 20\text{PPM}, \pm 30\text{PPM}, \pm 50\text{PPM}$	DEPENDING ON OPERATING TEMPERATURE RANGE
OPERATING TEMPERATURE RANGE	T_{OP}	$-20^\circ\text{C} \sim +70^\circ\text{C}$ OR $-40^\circ\text{C} \sim +85^\circ\text{C}$	OTHER OPTIONS AVAILABLE
LOAD CAPACITANCE	CL	8 TO 32PF OR SERIES	PLEASE SPECIFY LOAD CAPACITANCE
EQUIVALENT SERIES RESISTANCE	ESR	150Ω MAX	FUND MODE 16 ~ 20MHZ
		125Ω MAX	FUND MODE 20 ~ 24MHZ
		100Ω MAX	FUND MODE 24 ~ 26MHZ
		90Ω MAX	FUND MODE 26 ~ 30MHZ
		80Ω MAX	FUND MODE 30 ~ 40MHZ
		60Ω MAX	FUND MODE 40 ~ 60MHZ
DRIVE LEVEL	DL	10μW TYP, 100μW MAX	—
AGING FIRST YEAR	$\Delta f/y_1$	$\pm 3\text{PPM}$	@+25°C

MECHANICAL DIMENSIONS

RECOMMENDED LAND PATTERN

PAD	FUNCTION
1	CRYSTAL
2	N.C. or GND
3	CRYSTAL
4	N.C. or GND

Ceramic seam seal crystal package
2.0x1.6mm with 4 pads

CX-2SM Cx-2SMp4h0b
C 2015-03

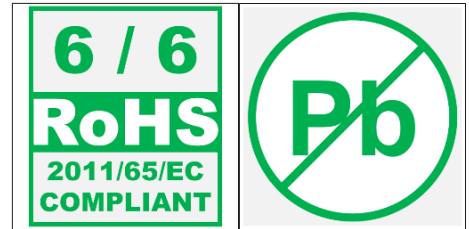
No scale Unit: mm

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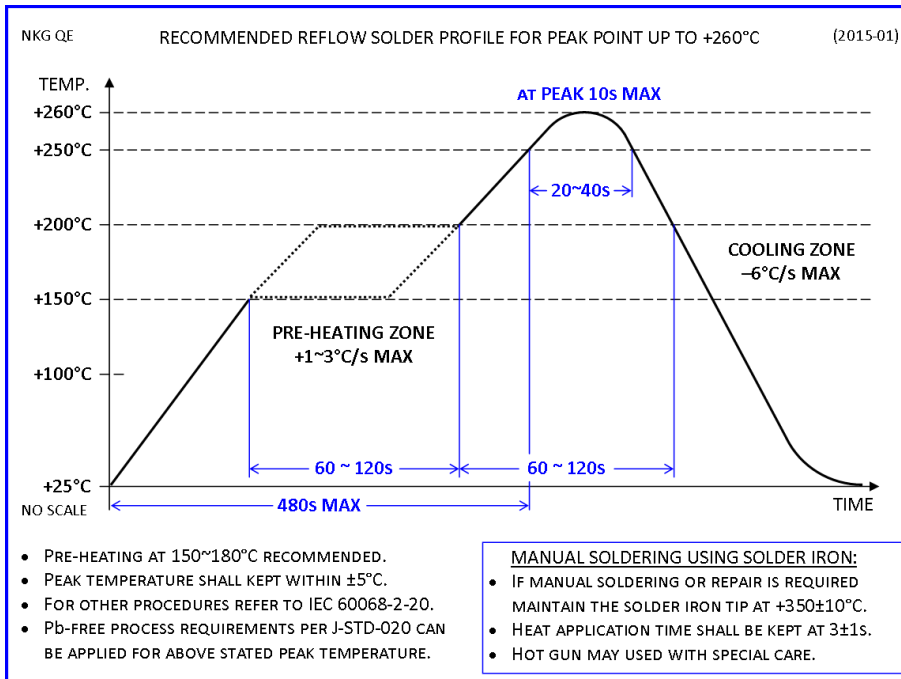
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ENVIRONMENTAL COMPLIANCE INFORMATION

- ROHS 6/6 COMPLIANT (DIRECTIVE 2011/65/EC) AND LEAD-FREE.
- COMPLIANT TO ROHS 2 (DIRECTIVE 2018/863) (ALSO CALLED ROHS10).
- HALOGEN-FREE PER DEFINITION OF IEC 61249-2-21 2033.
- NONE-USE OF SVHCS PER REACH IS CURRENTLY GIVEN, CONTINUOUSLY MONITORED AND UPDATED AS THE COMMISSION ISSUES NEW RELEASES.
- PRODUCT DOES NOT CONTAIN ANY PHTHALATES (PHS).
- PRODUCT DOES NOT CONTAIN PVC (POLYVINYL CHLORIDE).
- PRODUCT DOES NOT CONTAIN PFOS/PFOA NOR BEING SAME USED TO MANUFACTURE THE COMPONENTS OF THIS PRODUCT.
- NONE-USE OF CONFLICT MINERALS PER THE DODD-FRANK WALL STREET REFORM AND CONSUMER PROTECTION ACT (WALL STREET REFORM ACT).

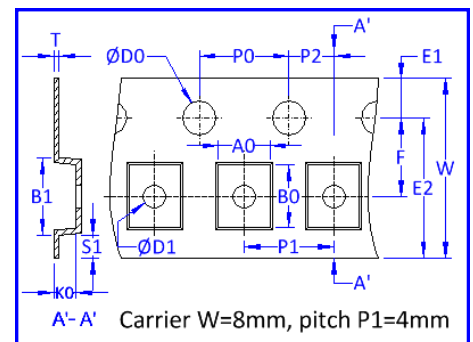


SOLDERING RECOMMENDATIONS



PACKAGING INFORMATION

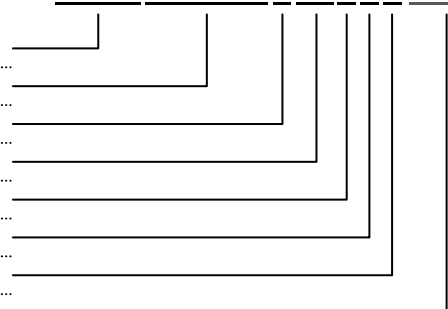
- PACKAGING IN TAPE & REEL IN COMPLIANCE TO EIA-481.
- QTY PER REEL: 3,000PCS
- REEL DIA A=180MM.
- EMBOSSED CARRIER TAPE WIDTH W = 8MM.
- COMPONENT PITCH P1 = 4MM.



PART NUMBER SYNTAX

- PART NUMBER FAMILY (REPRESENTS PRODUCT MODEL AND PACKAGE SIZE / TYPE)
- NOMINAL FREQUENCY (IN MHZ WITH AT LEAST FOUR DIGITS AFTER DECIMAL POINT)
- OPERATION MODE CODE (F = FUNDAMENTAL / T = 3RD OVERTONE)
- LOAD CAPACITANCE (ACTUAL VALUE OR SS FOR SERIES)
- OPERATING TEMPERATURE RANGE CODE (I.E. C= -10~60°C, E= -20~70°C, M= -40~85°C)
- FREQUENCY TOLERANCE DESIGNATOR (I.E. 1=10PPM, 2=20PPM, Y=15PPM, Z=25PPM)
- FREQUENCY STABILITY DESIGNATOR (I.E. 1=10PPM, 2=20PPM, Y=15PPM, Z=25PPM)
- PART NUMBER EXTENSION (ONLY FOR NONE-STANDARD OR CUSTOMIZED PART)

S2SM 25.0000 F 18 E 23 -EXT



FOR MORE INFORMATION PLEASE CONTACT US.

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