

QUARTZ CRYSTAL UNIT IN CERAMIC GLASS SEAL SMD PACKAGE, SIZE 8.0 x 4.5MM.

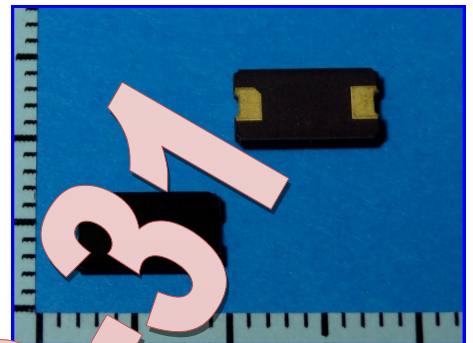
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PRODUCT FEATURES

- SMD PACKAGE SIZE 8.0 x 4.5 x 1.6MM WITH 2 PADS.
- LOW COST ALTERNATIVE TO COMMON SEAM SEAL PACKAGES.
- AUTOMOTIVE GRADE COMPLIANT TO AEC-Q200 IS AVAILABLE.
- ROHS COMPLIANT BY EXEMPTION.

APPLICATIONS

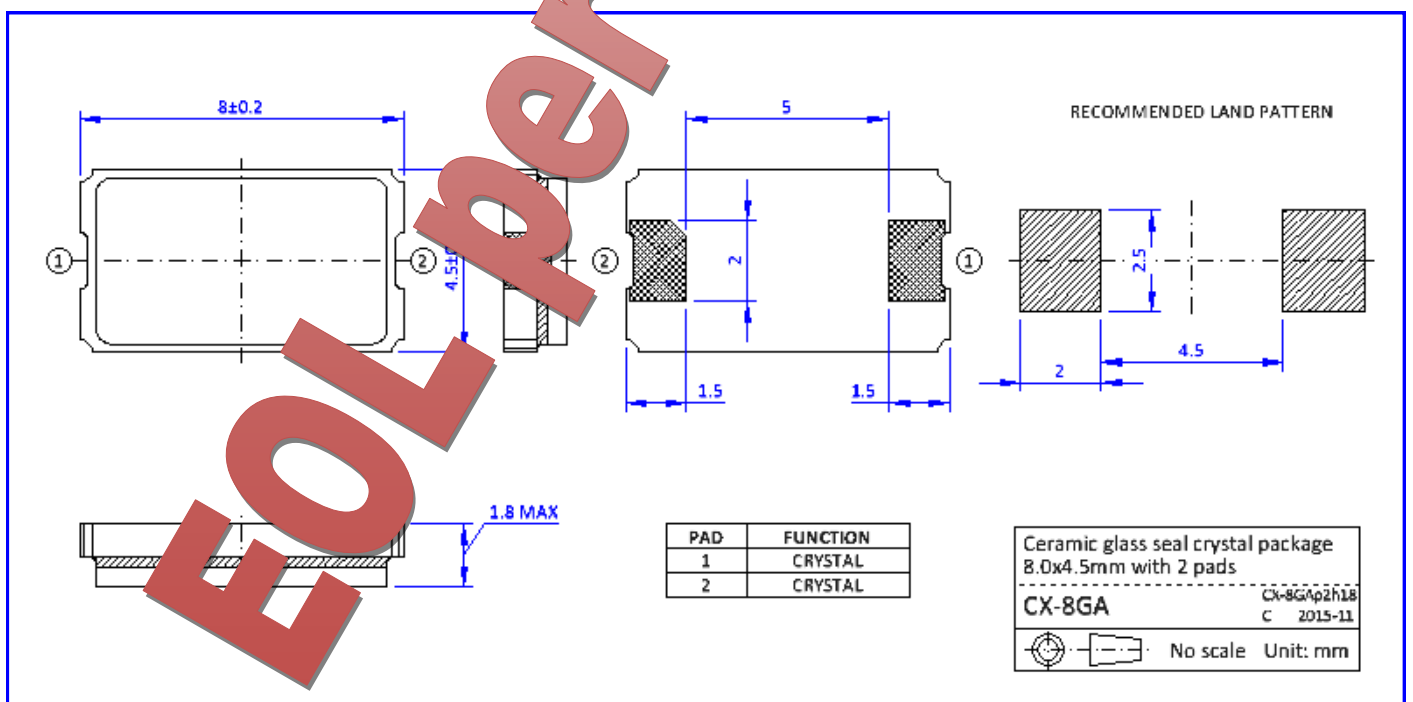
- COMPUTER PERIPHERALS
- OFFICE AUTOMATION
- SET-TOP BOX, TV SETS
- AUDIO & VIDEO



PRODUCT SPECIFICATIONS

| PARAMETER | SYMBOL | PARAMETER VALUES / UNITS | CONDITIONS / REMARKS |
|--------------------------------|----------------|---|--|
| FREQUENCY RANGE | F_N | 6.0 ~ 80.0MHZ | FUNDAMENTAL UP TO 50MHZ |
| OPERATION MODE | — | FUNDAMENTAL / 3RD OVERTONE | OVERTONE ABOVE 30MHZ |
| FREQUENCY TOLERANCE | $\Delta f/f$ | ± 20 PPM, ± 30 PPM, ± 50 PPM | OTHER OPTIONS AVAILABLE |
| STABILITY OVER OPERATING TEMP. | T_C | ± 20 PPM, ± 30 PPM, ± 50 PPM | DEPENDING ON OPERATING TEMPERATURE RANGE |
| OPERATING TEMPERATURE RANGE | T_{OP} | $-20^{\circ}C \sim +70^{\circ}C$ / $-40^{\circ}C \sim +85^{\circ}C$ | OTHER OPTIONS AVAILABLE |
| LOAD CAPACITANCE | CL | 8 TO 32PF OR SERIES | PLEASE SPECIFY LOAD CAPACITANCE |
| EQUIVALENT SERIES RESISTANCE | ESR | 20 Ω MAX | FUND MODE 6 ~ 8MHZ |
| | | 10 Ω MAX | FUND MODE 8 ~ 12MHZ |
| | | 60 Ω MAX | FUND MODE 12 ~ 14MHZ |
| | | 40 Ω MAX | FUND MODE 14 ~ 20MHZ |
| | | 40 Ω MAX | FUND MODE 20 ~ 50MHZ |
| | | 80 Ω MAX | 3RD OT MODE 30 ~ 60MHZ 3RD OT MODE 60 ~ 80MHZ |
| DRIVE LEVEL | DL | 200 μ W TYP 500 μ W MAX | — |
| AGING FIRST YEAR | $\Delta f/y_1$ | 5PPM | @+25 $^{\circ}C$ |

MECHANICAL DIMENSIONS



QUARTZ CRYSTAL UNIT IN CERAMIC GLASS SEAL SMD PACKAGE, SIZE 8.0 X 4.5MM.

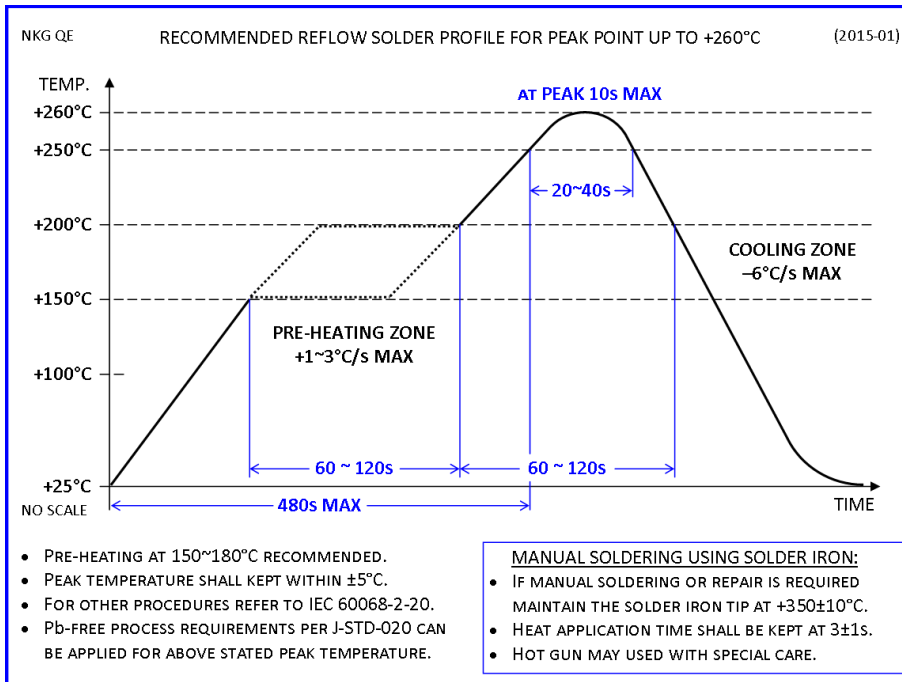
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ENVIRONMENTAL COMPLIANCE INFORMATION

- ROHS 6/6 COMPLIANT (DIRECTIVE 2011/65/EC) BY EXEMPTION 7(c)-1.
- COMPLIANT TO ROHS 2 (DIRECTIVE 2015/863) (ALSO CALLED ROHS 10).
- 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.
- MOISTURE SENSITIVITY LEVEL (MSL) 1 PER J-STD-020C.

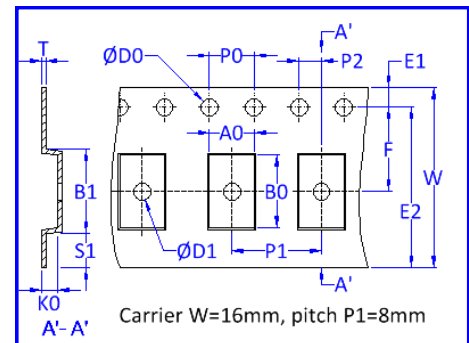


SOLDERING RECOMMENDATIONS



PACKAGING INFORMATION

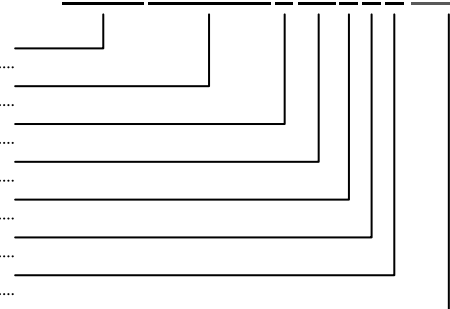
- PACKAGING IN TAPE & REEL IN COMPLIANCE TO EIA-481.
- QTY PER REEL: 1,000PCS
- REEL DIA A=180MM.
- EMBOSSED CARRIER TAPE WIDTH W = 16MM.
- COMPONENT PITCH P1 = 8MM.



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 "00" 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. 2=20PPM, 3=30PPM, Y=15PPM, Z=25PPM)
- FREQUENCY STABILITY DESIGNATOR (I.E. 5=50PPM, 0=100PPM, Y=15PPM, Z=25PPM)
- PART NUMBER EXTENSION (ONLY FOR NONE-STANDARD OR CUSTOMIZED PART)

S8GA 25.0000 F 18 E 25 -EXT



FOR MORE INFORMATION PLEASE CONTACT US.

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