

QUARTZ CRYSTAL UNIT IN RESIN MOLD SMD PACKAGE, SIZE 10.4 X 4.1MM WITH 4 J-LEADS.

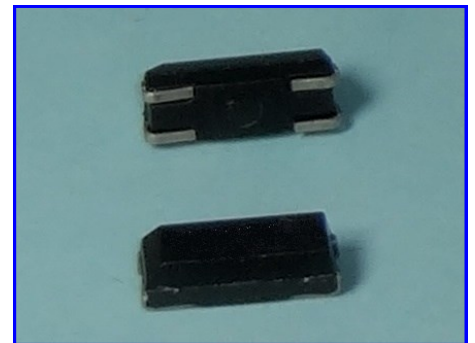
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PRODUCT FEATURES

- SMD RESIN MOLD PACKAGE SIZE 10.4 X 4.1 X 3.6MM WITH 4 J-LEADS.
- WIDE FREQUENCY RANGE FOR MEDIUM ACCURACY APPLICATIONS.
- SUITABLE FOR SMT AND LEAD-FREE REFLOW PROCESSING.

APPLICATIONS

- MICROPROCESSOR
- GRAPHICS CARD
- AUDIO & VIDEO EQUIPMENT

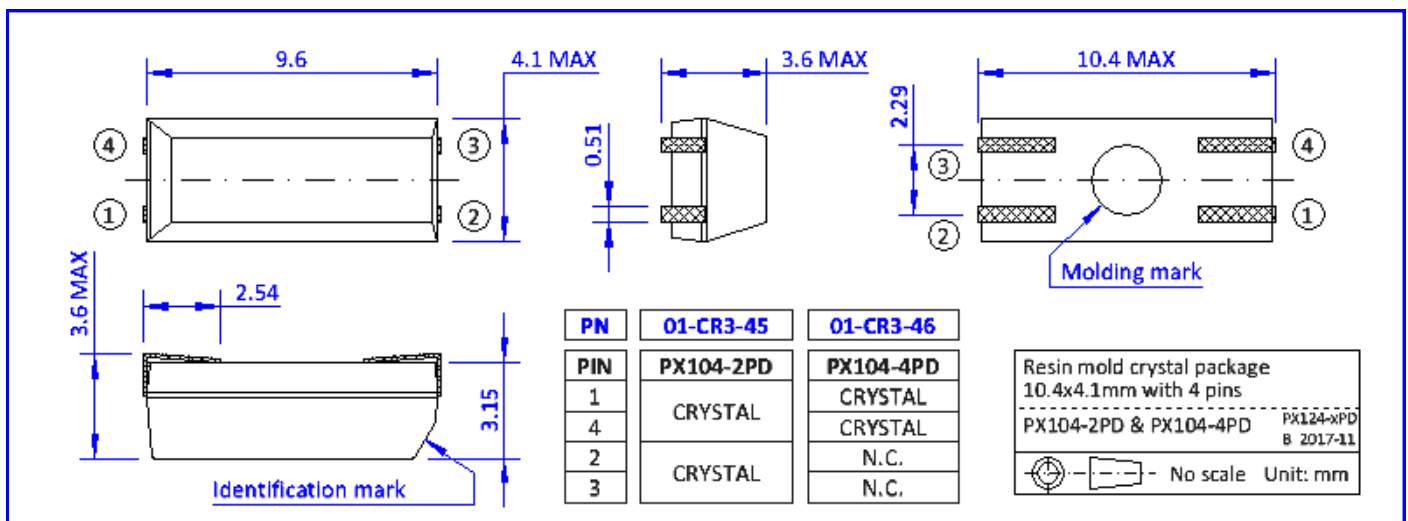


PRODUCT SPECIFICATIONS

| PARAMETER | SYMBOL | SPECIFICATIONS | REMARKS |
|--------------------------------|----------------|---|--|
| FREQUENCY RANGE | F_N | 3.570 ~ 70.0MHZ | FUNDAMENTAL UP TO 36MHZ |
| OPERATION MODE | — | FUNDAMENTAL / 3RD OVERTONE | OVERTONE ABOVE 30MHZ |
| FREQUENCY TOLERANCE | $\Delta f/f$ | $\pm 20\text{PPM}$, $\pm 30\text{PPM}$, $\pm 50\text{PPM}$ | OTHER OPTIONS AVAILABLE |
| STABILITY OVER OPERATING TEMP. | T_C | $\pm 30\text{PPM}$, $\pm 50\text{PPM}$, $\pm 100\text{PPM}$ | DEPENDING ON OPERATING TEMPERATURE RANGE (NOTE 1) |
| OPERATING TEMPERATURE RANGE | T_{OP} | $-10^\circ\text{C} \sim +60^\circ\text{C}$ OR $-20^\circ\text{C} \sim +70^\circ\text{C}$ | OTHER OPTIONS AVAILABLE |
| LOAD CAPACITANCE | CL | 8 TO 32PF OR SERIES | PLEASE SPECIFY LOAD CAPACITANCE |
| SHUNT CAPACITANCE | C_0 | 5pF | — |
| EQUIVALENT SERIES RESISTANCE | ESR | 150 Ω MAX 120 Ω MAX 100 Ω MAX 80 Ω MAX 50 Ω MAX 100 Ω MAX 80 Ω MAX | FUND MODE 3.57 ~ 4MHZ FUND MODE 4 ~ 5MHZ FUND MODE 5 ~ 6MHZ FUND MODE 6 ~ 10MHZ FUND MODE 10 ~ 36MHZ 3RD OT MODE 30 ~ 36MHZ 3RD OT MODE 36 ~ 70MHZ |
| DRIVE LEVEL | DL | 100 μW TYP, 500 μW MAX | — |
| AGING FIRST YEAR | $\Delta f/y_1$ | $\pm 5\text{PPM}$ | @+25 $^\circ\text{C}$ |
| INSULATION RESISTANCE | IR | >500M Ω | @100 $\pm 15\text{V}_{DC}$ |
| STORAGE TEMPERATURE RANGE | T_{ST} | $-50^\circ\text{C} \sim +125^\circ\text{C}$ | — |

NOTE 1: STABILITY IS THE FREQUENCY DEVIATION OVER OPERATING TEMPERATURE RANGE IN REFERENCE TO THE READING AT +25 $^\circ\text{C}$.

MECHANICAL DIMENSIONS

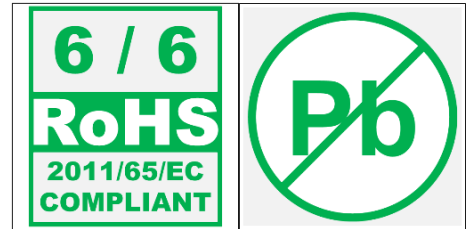


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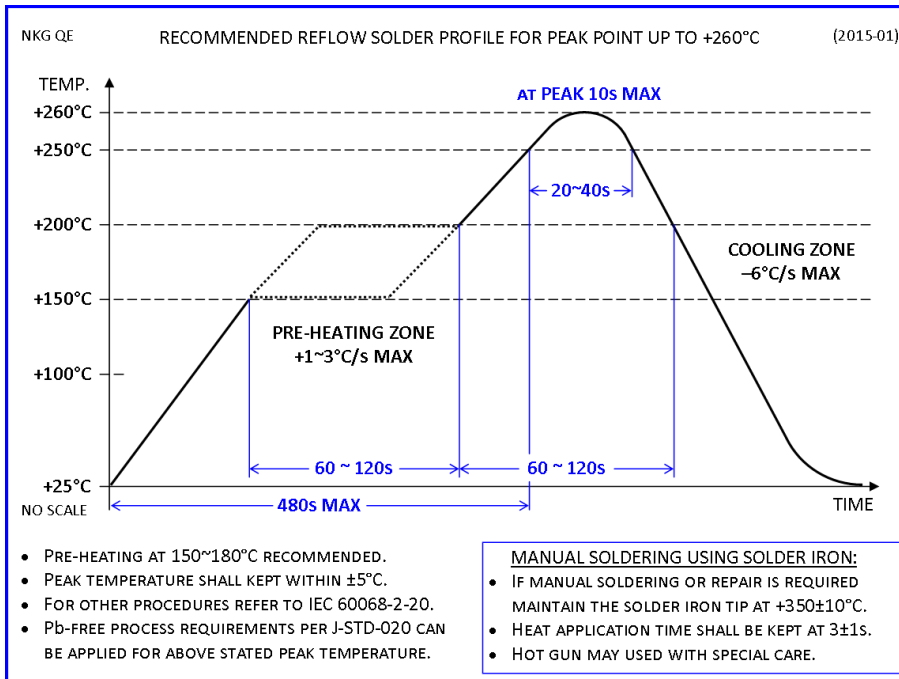
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ENVIRONMENTAL COMPLIANCE INFORMATION

- ROHS 6/6 COMPLIANT (DIRECTIVE 2011/65/EC) AND LEAD-FREE.
- COMPLIANT TO ROHS 2 (DIRECTIVE 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.

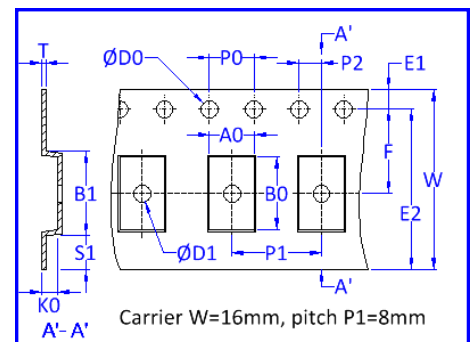


SOLDERING RECOMMENDATIONS



PACKAGING INFORMATION

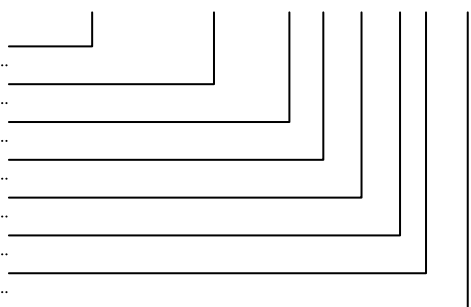
- PACKAGING IN TAPE & REEL IN COMPLIANCE TO EIA-481.
- QTY PER REEL: 1,000PCS
- REEL DIA A=330MM.
- EMBOSSED CARRIER TAPE WIDTH W = 16MM.
- COMPONENT PITCH P1 = 8MM.



PART NUMBER SYNTAX

- PART NUMBER FAMILY (REPRESENTS PRODUCT MODEL AND PACKAGE SIZE / TYPE)
- NOMINAL FREQUENCY (IN MHZ WITH AT LEAST THREE DIGITS AFTER DECIMAL POINT)
- OPERATION MODE CODE (BLANK = FUNDAMENTAL / T = 3RD OVERTONE)
- LOAD CAPACITANCE (ACTUAL VALUE OR 00 FOR SERIES)
- FREQUENCY TOLERANCE DESIGNATOR (I.E. 20=20PPM, 3=30PPM, 50=50PPM)
- FREQUENCY STABILITY DESIGNATOR (I.E. 30=30PPM, 50=50PPM, 00=100PPM)
- OPERATING TEMPERATURE RANGE CODE (I.E. C= -10~60°C, E= -20~70°C, M= -40~85°C)
- PART NUMBER EXTENSION (ONLY FOR NONE-STANDARD OR CUSTOMIZED PART)

01-CR3-45-25M000-T30-3050E-EXT



FOR MORE INFORMATION PLEASE CONTACT US.

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