

# QUARTZ CRYSTAL UNIT IN CERAMIC GLASS SEAL SMD PACKAGE, SIZE 6.0 x 3.5 MM.

### **PRODUCT FEATURES**

- SMALL PACKAGE SIZE 6.0 x 3.5 x 1.2MM 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

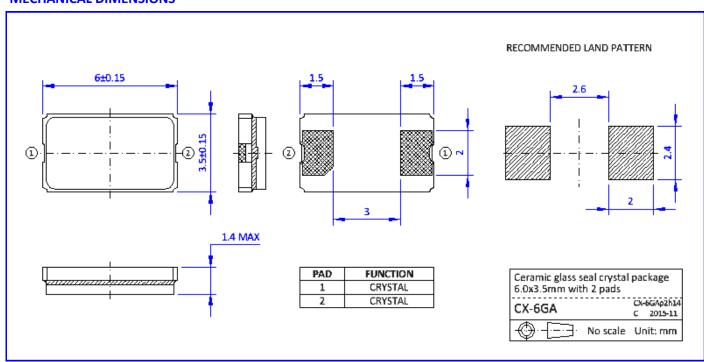
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# **PRODUCT SPECIFICATIONS**

PARAMETER	SYMBOL	SPECIFICATIONS	REMARKS
FREQUENCY RANGE	F <sub>N</sub>	8.0 ~ 60.0MHz	FUNDAMENTAL UP TO 54MHZ
OPERATION MODE	_	FUNDAMENTAL / 3rd OVERTONE	Overtone above 40MHz
FREQUENCY TOLERANCE	Δf/f	±20ррм, ±30ррм, ±50ррм	OTHER OPTIONS AVAILABLE
STABILITY OVER OPERATING TEMP.	T <sub>C</sub>	±20ррм, ±30ррм, ±50ррм	DEPENDING ON OPERATING TEMPERATURE RANGE
OPERATING TEMPERATURE RANGE	T <sub>OP</sub>	−20°C ~+70°C OR −40°C ~+85°C	OTHER OPTIONS AVAILABLE
LOAD CAPACITANCE	CL	8 to 32pf or SERIES	PLEASE SPECIFY LOAD CAPACITANCE
EQUIVALENT SERIES RESISTANCE	ESR	80Ω MAX	FUND MODE 8 ~ 10MHz
		60Ω MAX	FUND MODE 10 ~ 16MHz
		55Ω MAX	FUND MODE 16 ~ 20MHz
		50Ω MAX	FUND MODE 20 ~ 54MHz
		100Ω MAX	3rd OT mode 40 ~ 60MHz
DRIVE LEVEL	DL	100μW TYP, 300μW MAX	_
AGING FIRST YEAR	$\Delta f/y_1$	±3PPM	@+25°C

# **MECHANICAL DIMENSIONS**





# QUARTZ CRYSTAL UNIT IN CERAMIC GLASS SEAL SMD PACKAGE, **SIZE 6.0 X 3.5MM.**

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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 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 RE-FORM AND CONSUMER PROTECTION ACT (WALL STREET REFORM ACT).

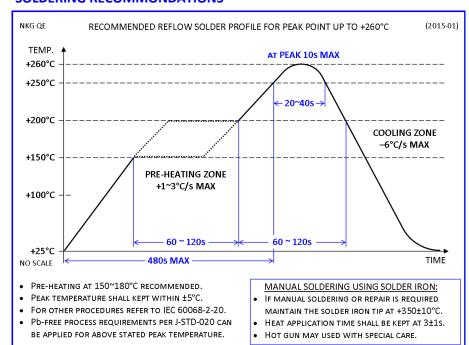
# COMPLIANT





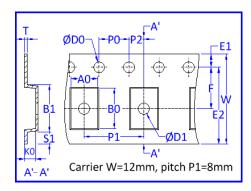


# **SOLDERING RECOMMONDATIONS**



#### **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 = 12MM.
- 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 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)

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FOR MORE INFORMATION PLEASE CONTACT US.

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PART NUMBER EXTENSION (ONLY FOR NONE-STANDARD OR CUSTOMIZED PART)