

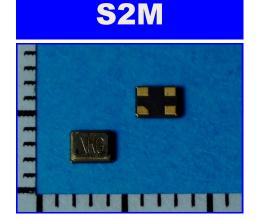
QUARTZ CRYSTAL UNIT IN CERAMIC SEAM SEAL SMD PACKAGE, **SIZE 2.5 X 2.0MM.**

PRODUCT FEATURES

- MINIATURE PACKAGE SIZE 2.5 X 2.0 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
- PORTABLE DEVICES
- USB MEMORY DEVICES.

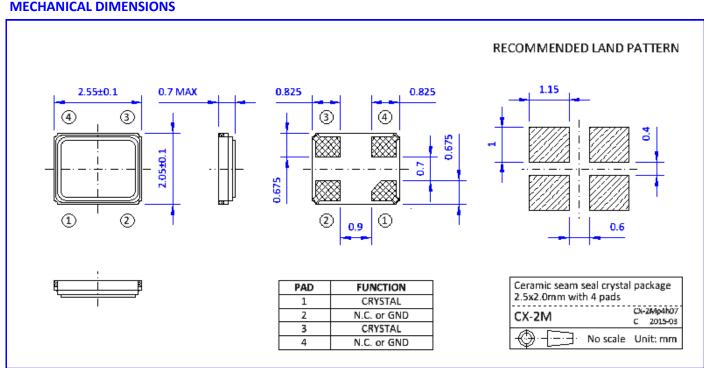


PRODUCT SPECIFICATIONS

MOBIL COMMUNICATION

PARAMETER	SYMBOL	SPECIFICATIONS	REMARKS
FREQUENCY RANGE	F _N	12.0 ~ 60.0MHz	_
OPERATION MODE	_	FUNDAMENTAL	_
FREQUENCY TOLERANCE	Δf/f	±10ppm, ±20ppm, ±30ppm, ±50ppm	OTHER OPTIONS AVAILABLE
STABILITY OVER OPERATING TEMP.	T _C	±10ррм, ±20ррм, ±30ррм, ±50ррм	DEPENDING ON OPERATING TEMPERATURE RANGE
OPERATING TEMPERATURE RANGE	T _{OP}	-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	125Ω MAX 80Ω MAX 70Ω MAX 60Ω MAX 50Ω MAX 40Ω MAX	FUND MODE 12 ~ 16MHz FUND MODE 16 ~ 20MHz FUND MODE 20 ~ 25MHz FUND MODE 25 ~ 30MHz FUND MODE 30 ~ 40MHz FUND MODE 40 ~ 60MHz
DRIVE LEVEL	DL	10μW TYP, 100μW MAX	_
AGING FIRST YEAR	∆f/y ₁	±ЗРРМ	@+25°C

MECHANICAL DIMENSIONS





QUARTZ CRYSTAL UNIT IN CERAMIC SEAM SEAL SMD PACKAGE, **SIZE 2.5 X 2.0MM.**

S2M

ENVIRONMENTAL COMPLIANCE INFORMATION

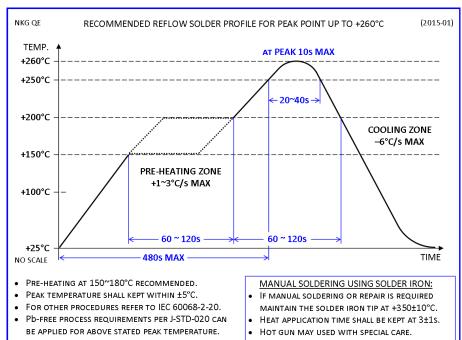
- ROHS 6/6 COMPLIANT (DIRECTIVE 2011/65/EC) AND LEAD-FREE.
- COMPLIANT TO ROHS 2 (DIRECTIVE 2015/863) (ALSO CALLED ROHS 10).
- HALOGEN-FREE PER DEFINITION OF IEC 61249-2-21 2033.
- NONE-USE OF SVHCs PER REACH IS CURRENTLY GIVEN, CONTINUOUSLY MONITORED AND UPDATED AS THE COMMISSION ISSUES NEW RELEASES.
- 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.

COMPLIANT



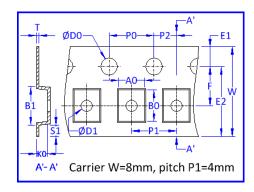


SOLDERING RECOMMONDATIONS



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.



S2M 25.0000 F 18 E 23 - EXT

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. 1=10PPM, 2=20PPM, Y=15PPM, Z=25PPM) FREQUENCY STABILITY DESIGNATOR (I.E. 3=30PPM, 5=50PPM, Y=15PPM, Z=25PPM) PART NUMBER EXTENSION (ONLY FOR NONE-STANDARD OR CUSTOMIZED PART)

FOR MORE INFORMATION PLEASE CONTACT US.

HONG KONG:

NAKAGAWA ELECTRONICS LIMITED

+852 2341 0001 🕙 www.nkg.com.hk

China Shenzhen office:

深圳中川晶体电子有限公司

+86(0)755 2598 2390

2018 / 05

www.nkg.com.hk

China Suzhou office:

苏州纳美电子有限公司

***** +86(0)512 8818 7890 +86(0)512 8818 7889

■ sales_nm@nkg.cn www.nkg.com.hk