

CRYSTAL OSCILLATOR UNIT WITH HCMOS OUTPUT IN CERAMIC SEAM SEAL SMD PACKAGE, SIZE 3.2 X 2.5MM.

PRODUCT FEATURES

- SMALL SMD PACKAGE SIZE 3.2 X 2.5 X 1.0MM WITH 4 PADS.
- HIGHLY RELIABLE SEAM SEAL PACKAGE AND LOW AGING.
- EXCELLENT HEAT AND SHOCK RESISTANCE.
- AUTOMOTIVE GRADE COMPLIANT TO AEC-Q200 IS AVAILABLE.

APPLICATIONS

NOTEBOOK, PDA

- MICROPROCESSOR
- LAN, WLAN, MODEMS

 USB AND HANDHELD DEVICES

SCO6

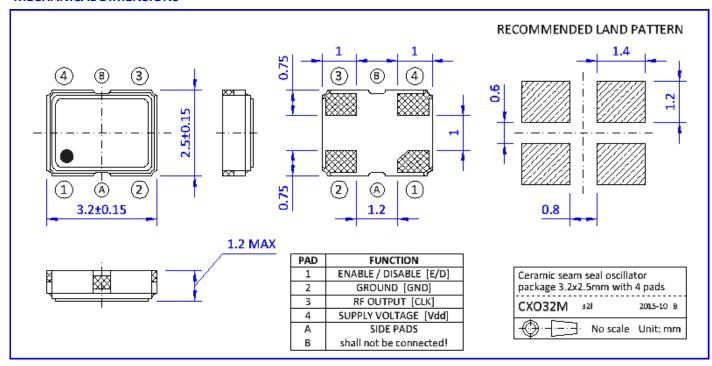
PRODUCT SPECIFICATIONS

PARAMETER	SYMBOL	PARAMETER VALUES / LIMITS	CONDITIONS / REMARKS
NOMINAL FREQUENCY	F_N	1.0 ~ 160MHz	FUNDAMENTAL OR 3RD OVERTONE DESIGN
SUPPLY VOLTAGE RANGE	V_{DD}	1.8V / 2.5V / 3.3V / 5.0V	MORE AVAILABLE, PLEASE CONTACT US
SUPPLY CURRENT CONSUMPTION	I _{DD}	<25mA	TYPICAL, SEE NOTE 1
OVERALL FREQUENCY STABILITY	$\Delta f/F_N$	±20ppm, ±25ppm, ±50ppm	SEE NOTE 2, OTHERS AVAILABLE
OPERATING TEMPERATURE RANGE	T _{OP}	-10°C~+70°C OR -40°C~+85°C	OTHER OPTIONS AVAILABLE
AGING FIRST YEAR	$(\Delta f/F_N)y1$	±3ppm	@+25°C
OUTPUT WAVEFORM / LOAD	— / C _L	HCMOS / 15pf	TYPICAL MOST COMMON, OTHERS AVAILABLE
OUTPUT VOLTAGE LEVELS	V_{OH}/V_{OL}	≥90%V _{DD} / ≤10%V _{DD}	_
RISE AND FALL TIMES	t_{R} and t_{F}	≤8ns below 16MHz ≤4ns 40~100MHz ≤5ns 16~40MHz ≤2ns above 100MHz	@10%~90%~10%V _{DD} , V _{DD} =3.3V
OUTPUT SYMMETRY (DUTY CYCLE)	DC	40/60% OR 45/55%	@50%V _{DD}
STANDBY FUNCTION	E/D	PIN1 = HIGH OR OPEN -> OUTPUT PIN3 ACTIVE	OUTPUT HIGH IMPEDANCE = TRI-STATE
		Pin1 = Low -> Output pin3 high impedance	● PIN1 CAN BE LEFT OPEN = FLOATING
STANDBY CURRENT CONSUMPTION	I _{STB}	10μΑ	TYPICAL

NOTE 1: CURRENT CONSUMPTION IS TYPICAL FOR 3.3V, AT LOWER SUPPLY VOLTAGES LESS CONSUMPTION.

NOTE 2: OVERALL FREQUENCY STABILITY INCLUDES TOLERANCE @+25°C, DEVIATIONS OVER OPERATING TEMPERATURE RANGE, DEVIATIONS DUE TO OUTPUT LOAD VARIATIONS AND SUPPLY VOLTAGE FLUCTUATIONS.

MECHANICAL DIMENSIONS





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ENVIRONMENTAL COMPLIANCE INFORMATION

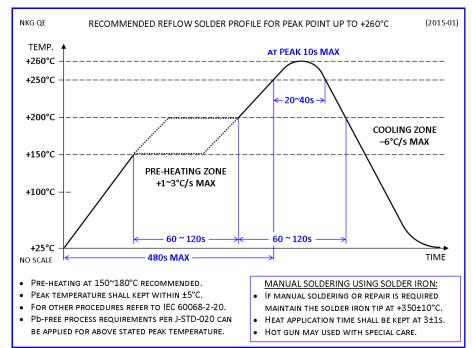
- ROHS 6/6 COMPLIANT (DIRECTIVE 2011/65/EC) AND LEAD-FREE.
- COMPLIANT TO ROHS 2 (DIRECTIVE 2015/863) (ALSO CALLED ROHS 10).
- HALOGEN-FREE PER DEFINITION OF IEC 61249-2-21 2033.
- NONE-USE OF SVHCs PER REACH IS CURRENTLY GIVEN, CONTINUOUSLY MONITORED AND UPDATED AS THE COMMISSION ISSUES NEW RELEASES.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

COMPLIANT



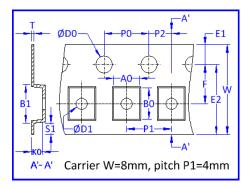


SOLDERING RECOMMONDATIONS



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.



SCO66B25.0000MTS-EXT

PART NUMBER SYNTAX

PART NUMBER FAMILY (REPRESENTS PRODUCT MODEL W/ CMOS OUTPUT AND PACKAGE SIZE) SUPPLY VOLTAGE NOMINATOR (I.E. 3= 5.0V, 6= 3.3V, 7= 1.8V, 8= 2.8V, 9= 2.5V) FREQUENCY STABILITY CODE (I.E. A= ±25PPM, B= ±50PPM, C= ±100PPM, D= ±30PPM) NOMINAL FREQUENCY (IN MHZ WITH AT LEAST FOUR DIGITS AFTER DECIMAL POINT) OPERATING TEMPERATURE RANGE CODE (I.E. M= -10~70°C, W= -40~85°C) OUTPUT SYMMETRY INDICATOR (N= 40/60%, T= 45/55%) OUTPUT LOAD DESIGNATOR (I.E. S= STANDARD 15PF, C= 20PF, D= 25PF, E= 30PF, G= 50PF) PART NUMBER EXTENSION (ONLY FOR NON-STANDARD OR CUSTOMIZED PARTS)

IF THERE IS A LARGE NUMBER OF CODES IN USE THE TABLE ABOVE MAY ONLY SHOW A FEW EXAMPLES.

FOR MORE INFORMATION PLEASE CONTACT US.

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