CRYSTAL OSCILLATOR UNIT WITH HCMOS OUTPUT IN CERAMIC SEAM SEAL SMD PACKAGE, SIZE 7.0 X 5.0MM.

PRODUCT FEATURES

SMD PACKAGE SIZE 7.0 x 5.0 x 1.3MM WITH 4 PADS.

CRYSTAL OSCILLATORS

- HIGHLY RELIABLE SEAM SEAL PACKAGE WITH LOW AGING.
- ULTRA LOW JITTER AND PHASE NOISE VERSIONS AVAILABLE.
- AUTOMOTIVE GRADE COMPLIANT TO AEC-Q200 IS AVAILABLE.

APPLICATIONS

- MICROPROCESSOR •
- MOTHERBOARD, VGA CARD

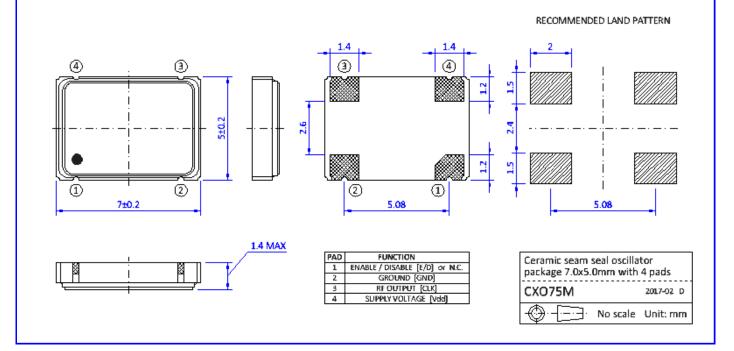
PRODUCT SPECIFICATIONS

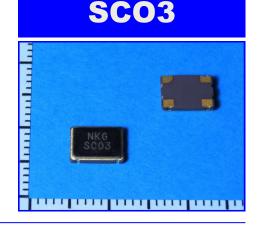
- LAN, WLAN, MODEMS HDTV, SET-TOP BOX
- PARAMETER **SYMBOL PARAMETER VALUES / LIMITS CONDITIONS / REMARKS** 1.0 ~ 160MHz NOMINAL FREQUENCY F_N FUNDAMENTAL OR 3RD OVERTONE DESIGN SUPPLY VOLTAGE RANGE V_{DD} 1.8V / 2.5V / 3.3V / 5.5V MORE AVAILABLE. PLEASE CONTACT US SUPPLY CURRENT CONSUMPTION 5mA ~ 40mA SEE NOTE 1 I_{DD} $\Delta f/F_N$ ±20ppm, ±25ppm, ±50ppm OVERALL FREQUENCY STABILITY SEE NOTE 2, OTHERS AVAILABLE **OPERATING TEMPERATURE RANGE** Τ_{ΟΡ} -10°C ~ +70°C UP TO -40°C ~+125°C OTHER OPTIONS AVAILABLE AGING FIRST YEAR $(\Delta f/F_N)y1$ ±3ppm @+25℃ OUTPUT WAVEFORM / LOAD — / C∟ HCMOS / 15pF or 30pF MOST COMMON, OTHERS ON REQUEST V_{OH} / V_{OL} **OUTPUT VOLTAGE LEVELS** $\geq 90\%V_{DD} / \leq 10\%V_{DD}$ below 16MHz ≤4ns 40~100MHz ≤8ns t_R and t_F RISE AND FALL TIMES @10%~90%~10%Vpp, Vpp=3.3V ≤5ns 16~40MHz ≤2ns above 100MHz **OUTPUT SYMMETRY (DUTY CYCLE)** DC 40/60% OR 45/55% @50%V_{DD} STANDBY FUNCTION PIN1 = HIGH OR OPEN -> OUTPUT PIN3 ACTIVE • OUTPUT HIGH IMPEDANCE = TRI-STATE E/D (ENABLE/DISABLE ON PIN 1) PIN1 = LOW -> OUTPUT PIN3 HIGH IMPEDANCE • PIN1 CAN BE LEFT OPEN = FLOATING STANDBY CURRENT CONSUMPTION 10µA **I**_{STB} ΤΥΡΙCΑΙ

NOTE 1: CURRENT CONSUMPTION IS DEPENDENT ON FREQUENCY AND FOR LOWER SUPPLY VOLTAGES LESS CONSUMPTION APPLIES.

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





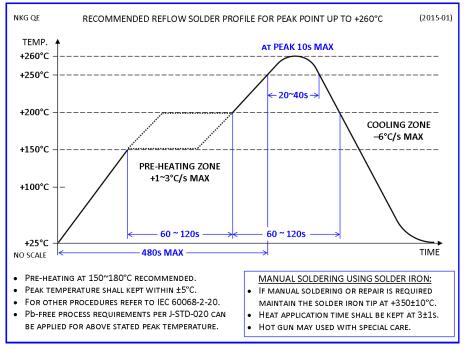


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ENVIRONMENTAL COMPLIANCE INFORMATION

- ROHS 6/6 COMPLIANT (DIRECTIVE 2011/65/EC) AND LEAD-FREE.
- COMPLIANT TO ROHS 2/3 (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 RECOMMONDATIONS

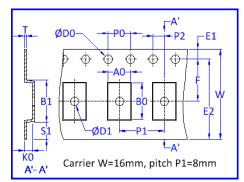


SCO3



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.



SCO36B25.0000MTS-EXT

PART NUMBER SYNTAX

