

QUARTZ CRYSTAL UNIT IN HC-49/T THRU-HOLE PACKAGE, SIZE 11 x 4.5 x 11MM WITH 2 LEADS.

PRODUCT FEATURES

- TRADITIONAL SHORT HC-49/U METAL PACKAGE WITH 2 LEADS.
- MOST SUITABLE FOR LOW FREQUENCIES.
- RELIABLE AND HERMETICALLY SEALED METAL CAN PACKAGE.

APPLICATIONS

• CPU, MCU

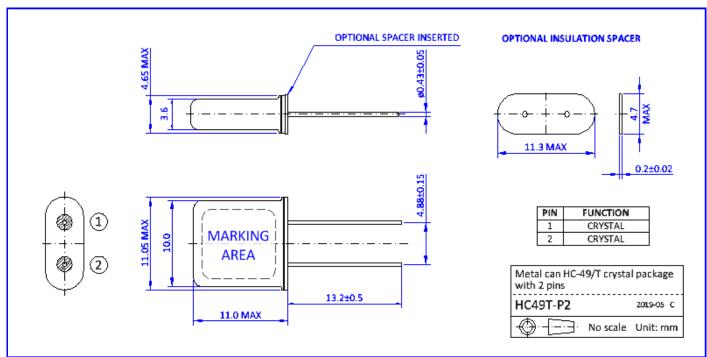
- TV, VIDEO
- ETHERNET, MODEM
- CONSUMER PRODUCTS



PRODUCT SPECIFICATIONS

PARAMETER	SYMBOL	SPECIFICATIONS	REMARKS
FREQUENCY RANGE	F _N	1.8432 ~ 150.0MHz	FUNDAMENTAL UP TO 40MHZ
OPERATION MODE	_	FUNDAMENTAL / 3RD AND 5TH OT	Overtone above 20MHz
FREQUENCY TOLERANCE	Δf/f	±20ррм, ±30ррм, ±50ррм	OTHER OPTIONS AVAILABLE
STABILITY OVER OPERATING TEMP.	T _C	±20ppm, ±30ppm, ±50ppm	DEPENDING ON OP. TEMPERATURE RANGE
OPERATING TEMPERATURE RANGE	T _{OP}	−20°C ~+70°C OR −40°C ~+85°C	OTHER OPTIONS AVAILABLE
LOAD CAPACITANCE	CL	6 to 32pf or SERIES	PLEASE SPECIFY LOAD CAPACITANCE
EQUIVALENT SERIES RESISTANCE	ESR	750~500Ω MAX	FUND MODE 1.8 ~ 2.3MHz
		350~200Ω MAX	FUND MODE 2.4 ~ 3.6MHz
		100Ω MAX	FUND MODE 3.7 ~ 4.1MHz
		70Ω MAX	FUND MODE 4.2 ~ 4.8MHz
		50Ω MAX	FUND MODE 4.9 ~ 5.9MHz
		40Ω MAX	FUND MODE 6.0 ~ 9.9MHz
		30Ω MAX	FUND MODE 10 ~ 13MHz
		25Ω MAX	FUND MODE 13 ~ 40MHz
		40Ω MAX	3RD OT MODE 20 ~100MHz
		80Ω MAX	5TH OT MODE 100 ~150MHz
DRIVE LEVEL	DL	100μW TYP, 500μW MAX	DEPENDENT ON FREQUENCY AND MODE
AGING FIRST YEAR	∆f/y ₁	±5PPM	@+25°C

MECHANICAL DIMENSIONS





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01-CR1-04

ENVIRONMENTAL COMPLIANCE INFORMATION

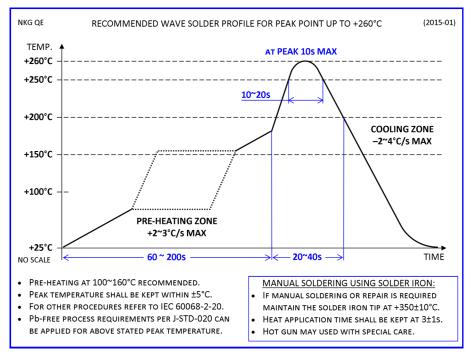
- ROHS 6/6 COMPLIANT (DIRECTIVE 2011/65/EC) AND LEAD-FREE.
- COMPLIANT TO ROHS 2/3 (DIRECTIVE 2015/863) (ALSO CALLED ROHS 10).
- HALOGEN-FREE PER DEFINITION OF IEC 61249-2-21 2033.
- NONE-USE OF SVHCs PER REACH IS CURRENTLY GIVEN, CONTINUOUSLY MONITORED AND UPDATED AS THE COMMISSION ISSUES NEW RELEASES.
- 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



PACKAGING INFORMATION

- PACKAGING IN BULK.
- QTY PER BOX: 1,000PCS

PART NUMBER FAMILY (REPRESENTS PRODUCT MODEL, PACKAGE SIZE AND NO. OF PINS) NOMINAL FREQUENCY (WITH AT LEAST THREE DIGITS AFTER DECIMAL POINT "M" FOR MHZ) OPERATION MODE CODE (BLANK = FUNDAMENTAL / T = 3rd OVERTONE / V = 5th OVERTONE) LOAD CAPACITANCE (NUMERICAL VALUE OR "00" FOR SERIES) FREQUENCY TOLERANCE DESIGNATOR (NUMERICAL VALUE (TWO DIGITS) OR 00 = 100PPM) FREQUENCY STABILITY DESIGNATOR (NUMERICAL VALUE (TWO DIGITS) OR 00 = 100PPM)

FOR MORE INFORMATION PLEASE CONTACT US.

01-CR1-04-25M000-T18-3050E-EXT

HONG KONG:

NAKAGAWA ELECTRONICS LIMITED

PART NUMBER SYNTAX

+852 2341 0001 🕙 www.nkg.com.hk

China Shenzhen office:

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 SPECIFICATIONS OR OTHER OPTIONS)

深圳中川晶体电子有限公司

+86(0)755 2598 2390

www.nkg.com.hk China Suzhou office:

中川电子(苏州)有限公司

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

sales_nm@nkg.cn www.nkg.com.hk