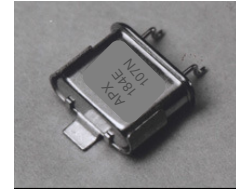


CRYSTAL UNITS (Rohs Compliant / Lead Free)
HC-49U-SMD Crystal (APU-SMD Series)



- SPECIFICATIONS

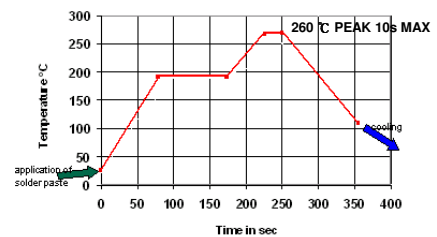
FREQUENCY RANGE		1.8432MHz TO 125.0MHz
MODE OF OSCILLATION	FUNDAMENTAL	1.8432MHz TO 32.0MHz
	THIRD OVERTONE	24.0MHz TO 79.999MHz
	FIFTH OVERTONE	80.0MHz TO 125.0MHz
FREQUENCY TOLERANCE AT 25°C		±30PPM STANDARD <±30PPM ARE AVAILABLE
FREQUENCY STABILITY OVER TEMPERATURE RANGE		±30PPM STANDARD <±30PPM ARE AVAILABLE
OPERATING TEMPERATURE RANGE		-20°C TO +70°C STANDARD -40°C TO +85°C EXTENDED
STORAGE TEMPERATURE RANGE		-55°C TO +125°C
SHUNT CAPACITANCE		7pF MAXIMUM
LOAD CAPACITANCE		10pF TO SERIES OR SPECIFIED
EQUIVALENT SERIES RESISTANCE (ESR)		SEE TABLE
DRIVE LEVEL		100 TO 500µW
AGING PER YEAR		±5PPM MAXIMUM STANDARD <±5PPM ON REQUEST



- Equivalent Series Resistance (ESR) and Mode Of Vibration (Mode)

Frequency Range (MHz)	ESR max.	Mode	Frequency Range (MHz)	ESR max.	Mode
1.8432 to 1.999	650	Fundamental/AT	6.000 to 7.999	50	Fundamental/AT
2.000 to 2.999	500	Fundamental/AT	8.000 to 12.999	35	Fundamental/AT
3.000 to 3.499	250	Fundamental/AT	13.000 to 32.000	25	Fundamental/AT
3.500 to 3.999	150	Fundamental/AT	24.000 to 29.999	60	Third Overtone
4.000 to 4.999	100	Fundamental/AT	30.000 to 79.999	40	Third Overtone
5.000 to 5.999	80	Fundamental/AT	80.000 to 125.000	90	Fifth Overtone

- SOLDER REFLOW PROFILE



- OUTLINE DIMENSIONS

PLEASE SEE ATTACHED DRAWING

Unit: mm

ORDERING CODE SYSTEM (VERSION 1.1 UPDATED MAY 2008)					EXAMPLE:
SERIES	FREQUENCY	LOAD CAPACITANCE	TEMPERATURE RANGE	TOLERANCE/ STABILITY	APU-SMD-1.8432-10X-2020
APU-SMD	IN MHZ	10pF TO SERIES OR SPECIFIED	X: EXT.TEMP. -40 TO +85°C BLANK: STANDARD	2020: PPM/PPM BLANK: STANDARD	

NON STANDARD FREQUENCIES AND SPECIFICATIONS ARE AVAILABLE ON REQUEST

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Specifications are subject to change without notice