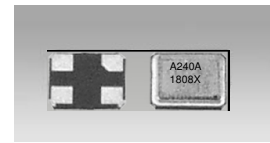


SURFACE MOUNT CRYSTAL UNITS (Rohs Compliant / Lead Free)
Ceramic Crystal SMD2.0x1.6mm (AP4-SMD016 Series)



- SPECIFICATIONS

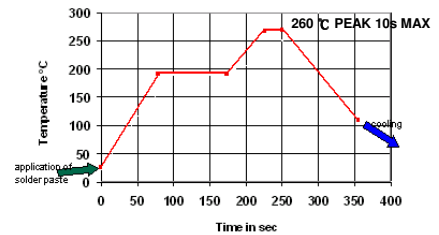
FREQUENCY RANGE		24.0MHz TO 60.000 MHz
MODE OF OSCILLATION	FUNDAMENTAL	24.0MHz TO 60.000 MHz
FREQUENCY TOLERANCE AT 25°C		±30PPM MAXIMUM <±30PPM ARE AVAILABLE
FREQUENCY STABILITY OVER TEMPERATURE RANGE		±30PPM MAXIMUM <±30PPM ARE AVAILABLE
OPERATING TEMPERATURE RANGE		-20°C TO +70°C STANDARD -40°C TO +85°C EXTENDED
STORAGE TEMPERATURE RANGE		-40°C TO +85°C
SHUNT CAPACITANCE		3pF MAXIMUM
LOAD CAPACITANCE		8pF TO 12pF OR SPECIFIED
EQUIVALENT SERIES RESISTANCE (ESR)		SEE TABLE
DRIVE LEVEL		50 TO 100µW
AGING PER YEAR		±2PPM MAXIMUM STANDARD <±2PPM ON REQUEST



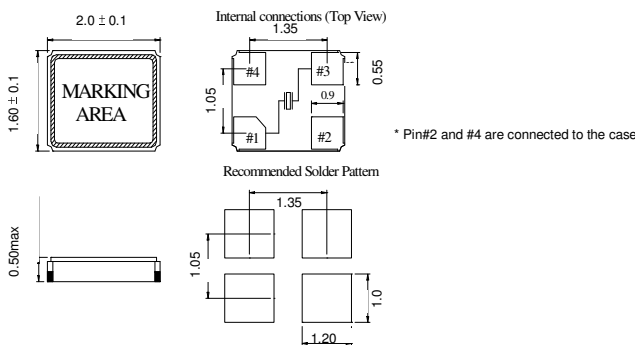
- Equivalent Series Resistance (ESR) and Mode Of Vibration (Mode)

Frequency Range (MHz)	ESR max.	Mode
24.000 to 24.999	100	Fundamental
25.000 to 35.999	80	Fundamental
36.000 to 60.000	60	Fundamental

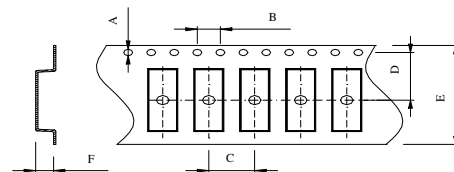
- SOLDER REFLOW PROFILE



- OUTLINE DIMENSIONS



- CARRIER TAPE DIMENSIONS (3,000 pcs/reel)



A	B	C	D	E	F
1.5±0.1	4.0±0.1	4.0±0.1	3.5±0.1	8.0±0.3	0.9±0.1

Unit: mm

ORDERING CODE SYSTEM (VERSION 1.1, SEPTEMBER 2008)					EXAMPLE:
SERIES	FREQUENCY	LOAD CAPACITANCE	TEMPERATURE RANGE	TOLERANCE/STABILITY	AP4-SMD016-24-12X-2020
AP4-SMD016	IN MHZ	8pF TO 12pF 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