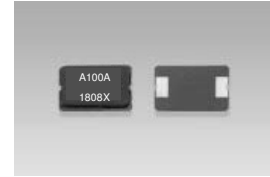


SURFACE MOUNT CRYSTAL UNITS (Rohs Compliant / Lead Free)
Ceramic Crystal SMD8x4.5mm (AP2-SMD08 Series)



- SPECIFICATIONS

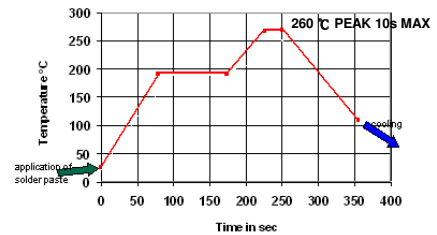
FREQUENCY RANGE		8.0MHz TO 80.000 MHz
MODE OF OSCILLATION	FUNDAMENTAL	10.0MHz TO 39.999 MHz
	THIRD OVERTONE	40.0MHz TO 80.000 MHz
FREQUENCY TOLERANCE AT 25°C		±50PPM STANDARD <±50PPM ARE AVAILABLE
FREQUENCY STABILITY OVER TEMPERATURE RANGE		±50PPM STANDARD <±50PPM ARE AVAILABLE
OPERATING TEMPERATURE RANGE		-10°C TO +70°C STANDARD -40°C TO +85°C EXTENDED
STORAGE TEMPERATURE RANGE		-40°C TO +85°C
SHUNT CAPACITANCE		7pF MAXIMUM
LOAD CAPACITANCE		10pF TO SERIES OR SPECIFIED
EQUIVALENT SERIES RESISTANCE (ESR)		SEE TABLE
DRIVE LEVEL		100 TO 300µW
AGING PER YEAR		±5PPM MAXIMUM STANDARD <±5PPM ON REQUEST



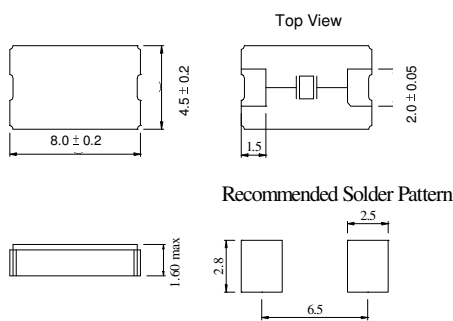
- Equivalent Series Resistance (ESR) and Mode Of Vibration (Mode)

Frequency Range (MHz)	ESR max.	Model
8.000 to 9.999	120	Fundamental
10.000 to 11.999	80	Fundamental
12.000 to 39.999	50	Fundamental
40.000 to 80.000	70	Third Overtone

- SOLDER REFLOW PROFILE

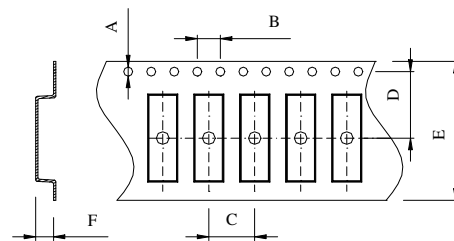


- OUTLINE DIMENSIONS



Unit: mm

- CARRIER TAPE DIMENSIONS (1,000 pcs/reel)



A	B	C	D	E	F
1.5 ± 0.1	4.0 ± 0.1	8.0 ± 0.1	7.5 ± 0.1	16.0 ± 0.3	2.0 ± 0.1

ORDERING CODE SYSTEM (VERSION 1.2 UPDATED NOVEMBER 2008)					EXAMPLE:
SERIES	FREQUENCY	LOAD CAPACITANCE	TEMPERATURE RANGE	TOLERANCE/STABILITY	AP2-SMD08-10-12X-2020
AP2-SMD08	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