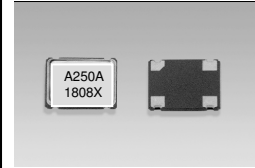


SURFACE MOUNT CLOCK OSCILLATORS (Rohs Compliant / Lead Free)
Oscillators SMD2.5x2.0mm (APO-SMD025 Series) 2.5V / 2.8V



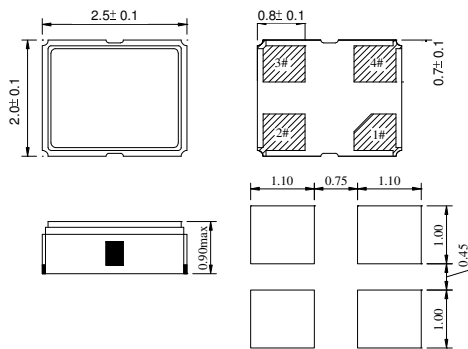
- SPECIFICATIONS

FREQUENCY RANGE		1.544MHz TO 9.999MHz	10MHz TO 34.999MHz	35MHz TO 49.999MHz	50MHz TO 80MHz
FREQUENCY STABILITY (ALL INCLUSIVE*)		±25PPM, ±50PPM, ±100PPM			
TEMPERATURE RANGE	OPERATING	-20°C TO +70°C STANDARD			
		-40°C TO +85°C EXTENDED			
	STORAGE	-55°C TO +125°C			
AGING (FIRST YEAR)		±5PPM			
INPUT	VOLTAGE	+2.5VDC ±10% / 2.8VDC ±10%			
	CURRENT (MAX.)	7mA	8mA	20mA	30mA
OUTPUT	LOAD	HC MOS		15pF Max	
	SYMMETRY	NORMAL: 40% TO 60%			
		TIGHT: 45% TO 55%			
	VOLTAGE	V_{OH}	90% V _{DD} min		
V_{OL}		10% V _{DD} max			
	RISE/FALL TIME	6nS Max (Tr: 10%V _{DD} ~90%V _{DD} , Tf: 90%V _{DD} ~10%V _{DD})			
START-UP TIME		10mS max			
STAND-BY FUNCTION		AVAILABLE			
PIN 1, TRI-STATE FUNCTION		Pin 1=H or open... Output active at pin 3 Pin 1=L... high impedance at pin 3			



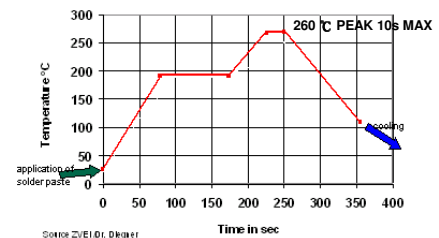
*Include: 25°C tolerance, operating temperature range, input voltage change, aging 1st year, load change, shock and vibration

- OUTLINE DIMENSIONS

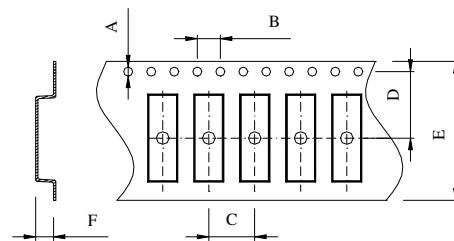


Recommended Solder Pattern

- SOLDER REFLOW PROFILE



- 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	1.0±0.1

PIN	CONNECTION
#1	Tri-State/NC
#2	GND
#3	Output
#4	+2.5VDC / +2.8VDC

Unit: mm

ORDERING CODE SYSTEM (VERSION 1.0, OCTOBER 2008)						EXAMPLE:
SERIES	STABILITY	FREQUENCY	INPUT VOLTAGE	TEMPERATURE RANGE	OPTIONAL / BLANK	APO-SMD025P-25-2.8XT
APO-SMD025	D: ±20PPM E: ±25PPM J: ±50PPM P: ±100PPM	IN MHZ	2.5 / 2.8	X: EXTENDED TEMPERATURE (-40 TO +85 °C)	T – TIGHT SYMMETRY OTHERS – SPECIAL BLANK – STANDARD	

NON STANDARD FREQUENCIES AND SPECIFICATIONS ARE AVAILABLE ON REQUEST

Specifications are subject to change without notice