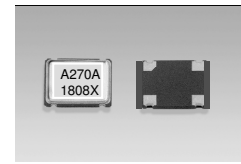


**SURFACE MOUNT CLOCK OSCILLATORS (Rohs Compliant / Lead Free)**  
**Oscillators SMD5x3.2mm (APO-SMD05 Series) 5V**



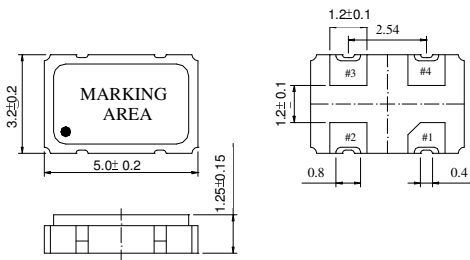
**- SPECIFICATIONS**

<b>FREQUENCY RANGE</b>		1.544MHz TO 9.999MHz	10MHz TO 34.999MHz	35MHz TO 49.999MHz	50MHz TO 125MHz	
<b>FREQUENCY STABILITY (ALL INCLUSIVE*)</b>		±20PPM, ±25PPM, ±50PPM, ±100PPM				
<b>TEMPERATURE RANGE</b>	<b>OPERATING</b>	0°C TO +70°C STANDARD				
	<b>STORAGE</b>	-40°C TO +85°C EXTENDED				
<b>AGING (FIRST YEAR)</b>		±5PPM				
<b>INPUT</b>	<b>VOLTAGE</b>	+5VDC ±10%				
	<b>CURRENT (MAX.)</b>	15mA	20mA	35mA	40mA	
<b>OUTPUT</b>	<b>LOAD</b>	<b>HCMOS</b>		30pF Max (15pF type)		
	<b>SYMMETRY</b>	NORMAL: 40% TO 60%				
		TIGHT: 45% TO 55%				
	<b>VOLTAGE</b>	<b>V<sub>OH</sub></b>	90% V <sub>DD</sub> min			
		<b>V<sub>OL</sub></b>	10% V <sub>DD</sub> max			
<b>RISE/FALL TIME</b>	5nS Max (Tr: 10%V <sub>DD</sub> ~90%V <sub>DD</sub> , Tf: 90%V <sub>DD</sub> ~10%V <sub>DD</sub> )					
<b>START-UP TIME</b>		10mS max				
<b>PIN 1, TRI-STATE FUNCTION</b>		Pin 1=H or open... Output active at pin 3 Pin 1=L... high impedance at pin 3				

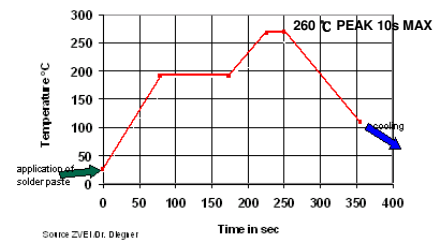


\*Include: 25°C tolerance, operating temperature range, input voltage change, aging 1st year, load change, shock and vibration

**- OUTLINE DIMENSIONS**

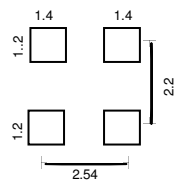


**- SOLDER REFLOW PROFILE**



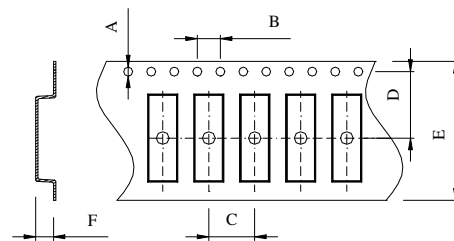
PIN	CONNECTION
#1	Tri-State/NC
#2	GND
#3	Output
#4	+5VDC

**Recommender Solder Pattern**



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	5.5±0.1	12.0±0.3	1.5±0.1

ORDERING CODE SYSTEM (VERSION 1.2 UPDATED MAY 2008)						EXAMPLE:
SERIES	STABILITY	FREQUENCY	INPUT VOLTAGE	TEMPERATURE RANGE	OPTIONAL / BLANK	APO-SMD05D-25-5XT
APO-SMD05	D: ±20PPM E: ±25PPM J: ±50PPM P: ±100PPM	IN MHZ	5	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