

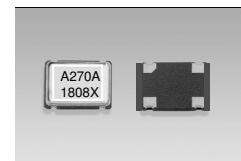
SURFACE MOUNT CLOCK OSCILLATORS (Rohs Compliant / Lead Free)

Oscillators SMD5x3.2mm (APO-SMD05 Series) 32.768KHz

- SPECIFICATIONS

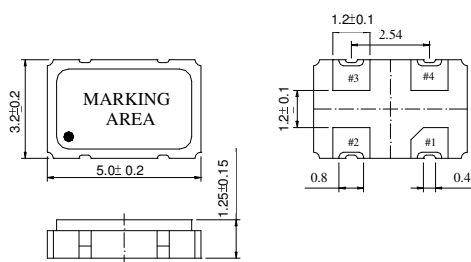
APX-Crystal

FREQUENCY RANGE		32.768KHz		
FREQUENCY STABILITY (ALL INCLUSIVE*)		±50PPM, ±100PPM		
TEMPERATURE RANGE	OPERATING	0℃ TO +70℃ STANDARD		
	STORAGE	-55℃ TO +125℃		
AGING (FIRST YEAR)		±5PPM		
INPUT	VOLTAGE	+2.8VDC ±10%	+3.3VDC ±10%	
	CURRENT (MAX.)	7mA	8mA	
OUTPUT	LOAD		HCMOS LOAD 15pF	
	SYMMETRY		NORMAL: 40% TO 60%	
			TIGHT: 45% TO 55%	
	VOLTAGE	VoH	90% VDD min	
		VoL	10% VDD max	
	RISE/FALL TIME		6nS Max	7nS Max
			(Tr: 10%VDD~90%VDD, Tf: 90%VDD~10%VDD)	
START-UP TIME		10mS max		
PIN 1, TRI-STATE FUNCTION		Pin 1=H or open... Output active at pin 3 Pin 1=L... high impedance at pin 3		

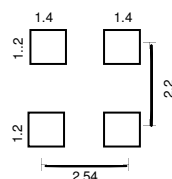


*Include: 25°C tolerance, operating temperature range, input voltage change, aging 1st year, load change, shock and vibration

- OUTLINE DIMENSIONS

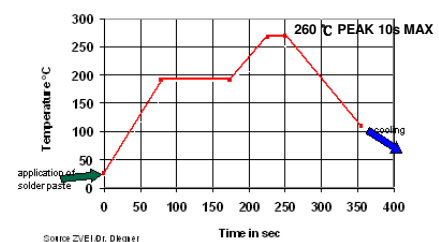


Recommender Solder Pattern

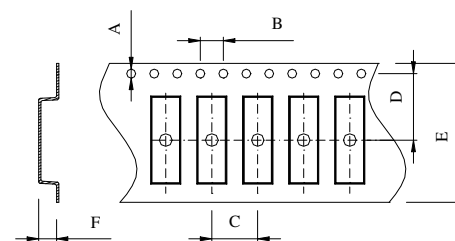


Unit: mm

- SOLDER REFLOW PROFILE



- 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 1.0, JUNE 2008)						EXAMPLE:
SERIES	STABILITY	FREQUENCY	INPUT VOLTAGE	TEMPERATURE RANGE	OPTIONAL / BLANK	APO-SMD05J-32.768K-2.8
APO-SMD05	J: ±50PPM P: ±100PPM	IN KHZ	2.8 / 3.3	0 TO +70 °C	T – TIGHT SYMMETRY OTHERS – SPECIAL BLANK - STANDARD	

NON STANDARD FREQUENCIES AND SPECIFICATIONS ARE AVAILABLE ON REQUEST

ActPro Ltd. (APX-Crystal)
PROREP
EDGE Meditronics PTE Ltd.

HONG KONG
FRANCE
SINGAPORE

Email: sales@apx-crystal.com
Email: sales@prorep.fr
Email: sales@edgemeditronics.com.sg

Internet: www.apx-crystal.com
Internet: www.prorep.fr
Internet: www.edgemeditronics.com.sg

Tel: 852-3625 2368 Fax: 852-2633 8503
Tel: 33-1-4812 1736 Fax: 33-1-4812 1739
Tel: 65-6455 0521 Fax: 65-6455 0857

Specifications are subject to change without notice