

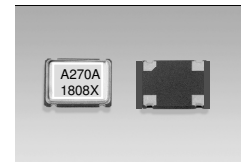
SURFACE MOUNT CLOCK OSCILLATORS (Rohs Compliant / Lead Free)

Oscillators SMD5x3.2mm (APO-SMD05 Series) 2.5V



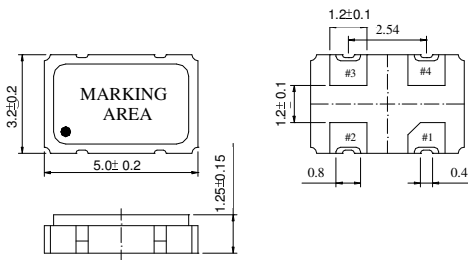
- SPECIFICATIONS

| | | | | | | |
|--------------------------------------|--|---|-------------------------|----------------------|-----------------|--|
| FREQUENCY RANGE | | 1.544MHz TO 9.999MHz | 10MHz TO 34.999MHz | 35MHz TO 49.999MHz | 50MHz TO 125MHz | |
| FREQUENCY STABILITY (ALL INCLUSIVE*) | | ±20PPM, ±25PPM, ±50PPM, ±100PPM | | | | |
| TEMPERATURE RANGE | OPERATING | 0°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% | | | | |
| | CURRENT (MAX.) | 7mA | 8mA | 20mA | 30mA | |
| OUTPUT | LOAD | HCMOS | | 30pF Max (15pF type) | | |
| | 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 | | | | |
| PIN 1, TRI-STATE FUNCTION | | Pin 1=H or open... Output active at pin 3 Pin 1=L... high impedance at pin 3 | | | | |

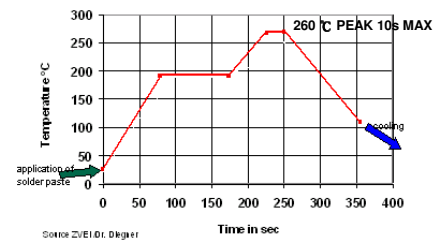


*Include: 25°C tolerance, operating temperature range, input voltage change, aging 1st year, load change, shock and vibration

- OUTLINE DIMENSIONS

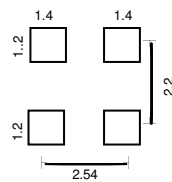


- SOLDER REFLOW PROFILE



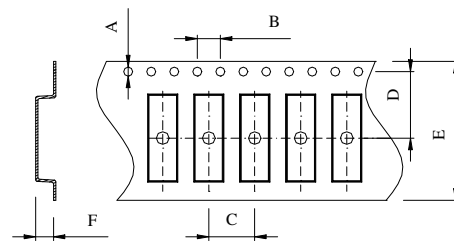
| PIN | CONNECTION |
|-----|--------------|
| #1 | Tri-State/NC |
| #2 | GND |
| #3 | Output |
| #4 | +2.5VDC |

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-25-2.5XT |
| APO-SMD05 | D: ±20PPM E: ±25PPM J: ±50PPM P: ±100PPM | IN MHZ | 2.5 | 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