

KHZ SMD OSCILLATOR

MAIN FEATURE

- 32.768KHz standard Frequency range • 1.8V, 2.5V, 3.3V, 5.0V option

RFQ

Request For Quotation

APPLICATION

- PDA, PND, DSC, Smart phone, WiLAN, Bluetooth and more



L2.5*W2.0*H1.0mm

STANDARD SPECIFICATION

| Parameter | Value | | | Unit | Condition | |
|---------------------------|-------|-----------|------|------|--------------------------------------|--------------------------|
| | Min. | Type | Max. | | | |
| Supply Voltage | - | 3.3 | - | V | see p/n guide or Specify | |
| Frequency Range | - | 32.768 | - | KHz | | |
| Overall Freq. Tolerance | - | ±50 | | ppm | see p/n guide or Specify | |
| Operating Temp. Range | -0 | - | +70 | °C | see p/n guide or Specify | |
| Output (HCMOS) | VOH | 90% | - | - | V | @90% x VDD |
| | VOL | - | - | 10% | V | @10% x VDD |
| | Load | - | 15 | - | pF | see p/n guide or Specify |
| Enable/Disable Function: | - | Tri-State | - | | @ Control via pin 1 or see p/n guide | |
| Symmetry | 40 | - | 60 | | see p/n guide or Specify | |
| Startup Time | - | - | 10 | ms | | |
| Supply Current | - | - | 240 | µA | | |
| Rise/ Fall time | - | - | 200 | ns | | |
| Storage Temperature Range | -55 | - | +125 | °C | | |
| Aging per year | - | ±5 | | ppm | | |

PART NUMBER GUIDE

Example: COK22 31BGH03 TLF-32K768

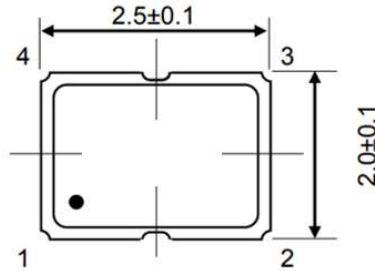
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|-------|---|---|---|---|---|----|---|----|----|---------|
| COK22 | 3 | 1 | B | G | H | 03 | T | LF | XX | -32K768 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |

- 1) COK22: KHz SMD Oscillator, 4 pads, L2.5*W2.0*H1.0mm
- 2) 3: Supply Voltage, 5: 5.0V; 3: 3.3V; 2: 2.5V; 1: 1.8V
- 3) 1: Enable/Disable Function, 1: Tri-state Via Pin 1; 0: N/A
- 4) B: Overall Frequency tolerance, A:+/-25ppm; B: +/-50ppm; C: +/-100ppm; J:+/-20ppm or Specify
- 5) G: Operating Temp. Range, D:0~70 °C; E: -10 ~+60°C; F: -20 ~+70 °C; G: -40 ~+85 °C or Specify
- 6) H: Symmetry H: 40/60; I: 45/55
- 7) 03: Output Load: 00: 1-10TTL//15pF; 01: HCMOS//15pF; 03: HCMOS//30pF; 05: HCMOS//50pF or Specify
- 8) T: Packed in Tape/Reel, 3000pcs/Reel
- 9) LF: RoHS Compliant
- 10) XX: Intenal Control Code, 2 letter or digits; Blank: N/A
- 11) 32K768: Frequency Range 32.768KHz or specify

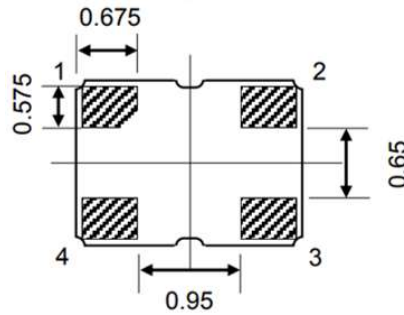
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DIMENSION (Unit: mm)

Top View



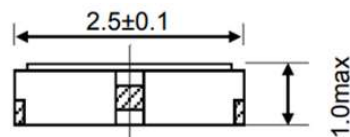
Bottom View



Pin Function

- #1 Enable(Tri-State)/Disable
- #2 Ground
- #3 Output
- #4 VDD

Side View



Solder Pattern for reference

