

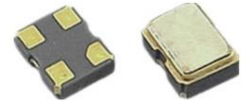
KHZ SMD OSCILLATOR

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



L2.0*W1.6*H0.80mm

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: COK21 31BGH03 TLF-32K768

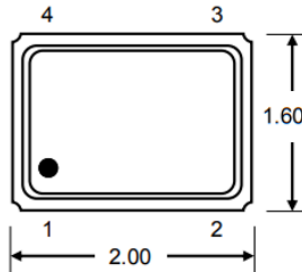
COK21	3	1	B	G	H	03	T	LF	XX	-32K768
1	2	3	4	5	6	7	8	9	10	11

- 1) COK21: KHz SMD Oscillator, 4 pads, L2.0*W1.6*H0.80mm
- 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: 01: 1-10TTL//15pF; 03: HCMOS//15pF; 04: 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

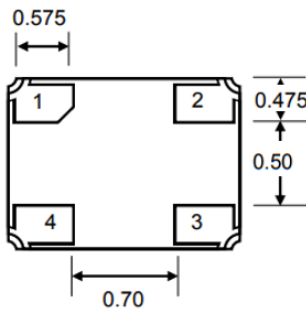
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DIMENSION (Unit: mm)

Top View



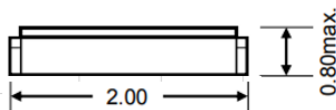
Bottom View



Pin Function

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

Side View



Solder Pattern for reference

