

KHZ THRU- HOLE CRYSTALS

MAIN FEATURE

- 32.768KHz Std. and wide Frequency range

RFQ

Request For Quotation



Ø3.1*H8.3mm

APPLICATION

- Clock/Watch and more

STANDARD SPECIFICATION

Parameter	Value			Unit	Condition
	Min.	Type	Max.		
Frequency Range	30.00	32.768	200.00	KHz	
Oscillation Mode	AT Fund.				
Frequency Tolerance	-	±20		ppm	@25 °C or Specify
Operating Temperature Range	-10	-	+60	°C	CL: 7.0pF, 9.0pF or Specify Wide Operating Temp. range See Part number Guide for option
Storage Temperature Range	-40	-	+85	°C	
Load Capacitance (CL)	-	12.5	-	pF	
Frequency/Temp Coefficient	0.028	0.034	0.040	ppm/C ²	
Turnover Temp	+20	+25	+30	°C	
Equivalent Series Resistance		-	35	Kohm	
Drive Level	-	-	1.0	µW	
Shunt Capacitance	0.9	1.8	2.0	pF	
Dynamic Capacitance	-	2.1	-	Ff	
Quality Factor		60000			
Capacitance Ratio	-	450	-		
Aging per year	-	±5		ppm/year	
Insulation Resistance	500	-	-	Mohm	@ 100Vdc ± 15V

PART NUMBER GUIDE

Example: CCB 32K768A20-12.5-10-35 BLF

CCB	32K768	A	20	-12.5	-10	-35	B	LF	XX
1	2	3	4	5	6	7	8	9	10

- 1) CCB: KHz SMD Crystals Ø3.1*H8.3mm
- 2) 32K768: Frequency Range 32.768KHz
- 3) A: Oscillation Mode, A: AT Fund.
- 4) 20: Freq. tolerance, 20: +/-20ppm
- 5) 12.5: Load Capacitance(CL), 12.5: 12.5pF or Specify CL value
- 6) 10: Operating Temp. Range, 10: -10°C ~+60°C
- 7) 35: Equivalent Series Resistance (ESR), 35: 35 Kohm Max.
- 10) B: Package in bulk
- 10) LF: RoHS Compliant
- 11) XX: Intenal Control Code, 2 letter or digits; Blank: N/A

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DIMENSION (Unit: mm, Tol.: +/-0.20mm)

Side View

