

MAIN FEATURE

- 32.768KHz • SMD Package 2 Pads with Metal Lid

APPLICATION

- Mobile Communications, Consumer Devices and more

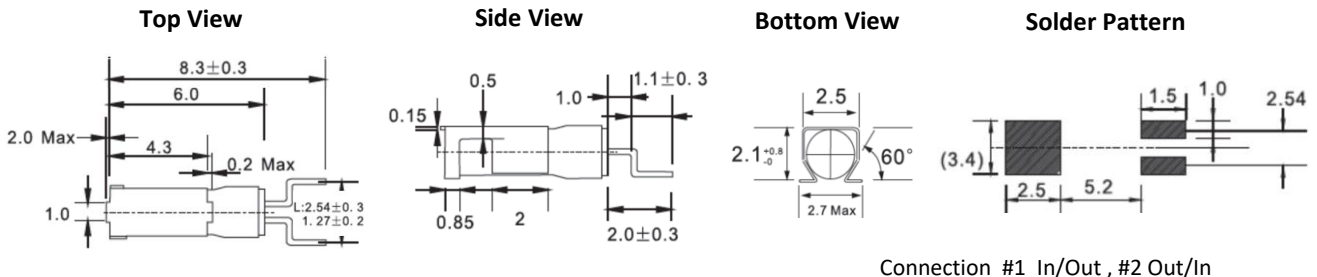


Ø2.0*L6.0mm

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 Temperture Range	-40	-	+85	°C	CL: 7.0pF, 9.0pF or Specify
Storage Temperature Range	-55	-	+125	°C	
Load Capacitance (CL)	-	12.5	-	pF	
Frequency/Temp Coefficient	0.028	0.034	0.04	ppm/C ²	
Turnover Temp	+20	+25	+30	°C	
Equivalent Series Resistance		-	50	Kohm	
Drive Level	-	-	1.0	µW	
Shunt Capacitance	0.9	1.1	2.0	pF	
Dynamic Capacitance	-	5.0	-	Ff	
Quality Factor		60000			
Capacitance Ratio	-	450	-		
Aging per year	-	±3		ppm/year	
Insulation Resistance	500	-	-	Mohm	@ 100Vdc ± 15V

DIMENSION (mm)



PART NUMBER GUIDE

Example: TGS CCMA 32K768A20-12.5-40-50 TLF

Part Number and Part Code Structure

TGS	CCMA	32K768	A	20	-12.5	-40	-50	T	LF	XX
1	2	3	4	5	6	7	8	9	10	11

- 1) TGS: Company Code
- 2) CCMA: KHz SMD Crystals, Ø2.0*L6.0mm with Metal Lid
- 3) 32K768: Frequency Range 32.7680KHz or Specify
- 4) A: Oscillation Mode, AT Fund.
- 5) 20: Frequency tolerance: +/-20ppm or specify
- 6) 12.5: Load Capacitance, 12.5pF; 9: 9.0pF or Specify
- 7) 40: Operating Temp. Range -40°C ~+85°C,
- 8) 50: Equivalent Series Resistance, 50 Kohm Max.
- 9) T: Package in Tape/Reel, 3000pcs/Reel
- 10) LF: RoHS compliant
- 11) XX: Internal Control Code- 2 letter or digits ; Blank: N/A

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