

L3.2\*W2.5\*H0.80mm



**MAIN FEATURE**

- High reliable • Low Cost and short lead time • 4 Pads

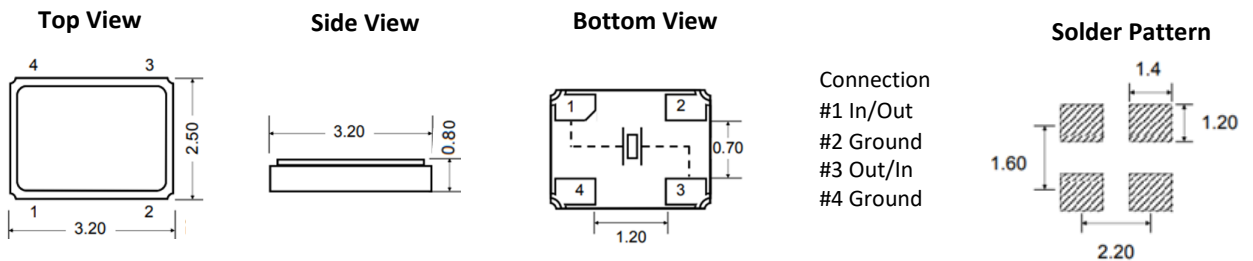
**APPLICATION**

- PC, TV, Hard Disk, Consumer electronics products and more

**STANDARD SPECIFICATION**

Parameter	Value			Unit	Condition
	Min.	Type	Max.		
Frequency Range	10.0		54.00	MHz	
Oscillation Mode	AT Fund.				3 <sup>RD</sup> Overtone Option
Frequency Tolerance	-	±50		ppm@25 °C	see p/n guide for more option
Operating Temp. Range	-40	-	+85	°C	see p/n guide for more option
Storage Temp. Range	-55	-	+125	°C	
Load Capacitance (CL)	-	18	-	pF	see p/n guide for more option
Frequency Stability	-	±50	-	ppm	see p/n guide for more option
Equivalent Series Resistance (ESR)			150	ohm	@10.000 ~ 12.00MHz
			120		@12.001 ~ 15.00MHz
			100		@15.001 ~ 16.00MHz
			80		@16.001 ~ 20.00MHz
			70		@20.001 ~ 27.00MHz
			60		@27.001 ~ 54.00MHz
Drive Level	-	-	100	µW	
Shunt Capacitance	-	-	7.0	pF	
Insulation Resistance	500	-		mW	DC/100V +-10%
Aging per year	-	±3		ppm	@25 °C

**DIMENSION (mm)**



**PART NUMBER GUIDE** Example: TGS CMG32 16M0A50-18-50-40-100 TLH

**Part Number and Part Code Structure**

TGS	CMG32	16M0	A	50	-18	-50	-40	-100	T	LH	XX
1	2	3	4	5	6	7	8	9	10	11	12

- 1) TGS: Company Code
- 2) CMG32: SMD Crystal Glass seal, 4 pads, L3.2\*W2.5\*H0.80mm
- 3) 16M0: Frequency Range 16.000MHz or specify detail frequency range
- 4) A: Oscillation Mode, A: AT Fund. 3: 3<sup>rd</sup> Overtone
- 5) 50: Freq. tolerance, 50: +/-50ppm; 10: +/-10ppm; 20: +/-20ppm; 30: +/-30ppm or Specify detail value
- 6) 18: Load Capacitance(CL), 15: 15pF; 18: 18pF; 20: 20pF; 30: 30pF or Specify detail CL value
- 7) 50: Frequency Stability, 50: +/-50ppm;10: +/-10ppm; 20: +/-20ppm; 30: +/-30ppm or Specify detail value
- 8) 40: Operating Temp. Range, 40: -40°C ~+85°C; 10: -10°C ~+60°C; 20: -20°C ~+70°C; or Specify detail value
- 9) 100: Equivalent Series Resistance (ESR), 100: 100 ohm Max.                      10) T: Package in Tape/Reel, 1000pcs/Reel
- 11) LH: RoHS/RoHS II Compliant    12) XX: Internal Control Code- 2 letter or digits ; Blank: N/A

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