

L5.0*W3.2*H1.4mm



MAIN FEATURE

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

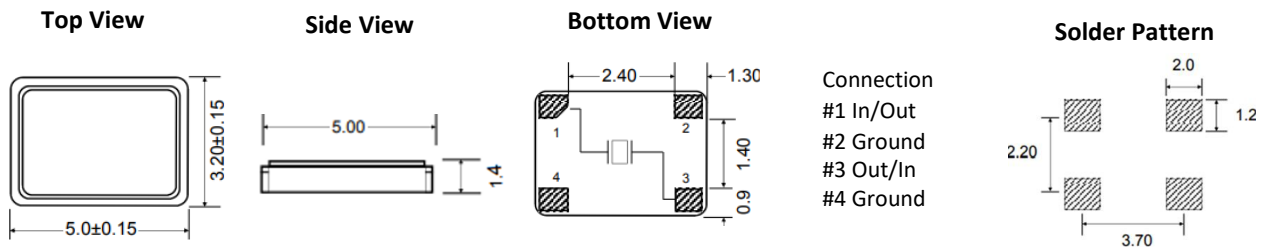
APPLICATION

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

STANDARD SPECIFICATION

Parameter	Value			Unit	Condition
	Min.	Type	Max.		
Frequency Range	8.0		80.00	MHz	
Oscillation Mode	AT Fund.				3 RD 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)			80	ohm	@8.000 ~ 12.00MHz
			70		@12.001 ~ 20.00MHz
			60		@20.001 ~ 40.00MHz
			50		@40.001 ~ 50.00MHz
			120		@40.000 ~ 60.00MHz, 3 rd OT
			100		@60.001 ~ 80.00MHz, 3 rd OT
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 CMG53 16M0A50-18-50-40-70 TLH

Part Number and Part Code Structure

TGS	CMG53	16M0	A	50	-18	-50	-40	-70	T	LH	XX
1	2	3	4	5	6	7	8	9	10	11	12

- 1) TGS: Company Code
- 2) CMG53: SMD Crystal Glass seal, 4 pads, L5.0*W3.2*H1.40mm
- 3) 16M0: Frequency Range 16.000MHz or specify detail frequency range
- 4) A: Oscillation Mode, A: AT Fund. 3: 3rd 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) 70: Equivalent Series Resistance (ESR), 70: 70 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

TGS Crystals Ltd. reserves the right to make changes to the product(s) and or information contained herein without notice. No liability is assumed as a result of their use or application. No rights under any patent accompany the sale of any such product(s) or information.