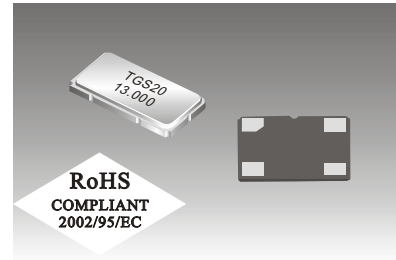


FEATURES

- Ultra Low Height
- Tight Tolerance and Stability
- 4 pads
- Tape & Reel
- Dimension 3.2x2.5x0.8mm
- Seam Weld Sealing
- Lead Free available

APPLICATIONS

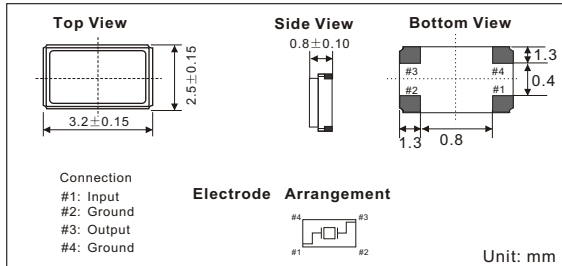
- Cellular telephones
- PHS
- Cordless telephones and pagers



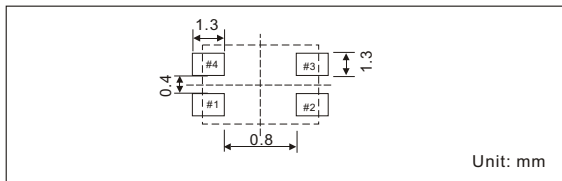
SPECIFICATION *

Parameters	Product	Option Code
	SMD0302	CM32
Frequency Range:	25.000~50.0MHz	△ Specify
Oscillation Mode:	AT Fund.	△ A
Frequency Tolerance:	±10ppm	△ 10
	±20ppm	△ 20
	±30ppm	△ 30
	±50ppm	▲ 50
	Other Values	△ Specify
Load Capacitance:	10pF	△ 10
	12pF	△ 12
	16pF	△ 16
	18pF	△ 18
	20pF	▲ 20
	Series Resonant Other Values	△ S △ Specify
Frequency Stability:	±10ppm	△ 10
	±20ppm	△ 20
	±30ppm	△ 30
	±50ppm	▲ 50
	Other Values	△ Specify
Operating Temp. Range:	0℃~+50℃	△ 0
	-10℃~+60℃	▲ 10
	-20℃~+70℃	△ 20
	Other Values	△ Specify
	Storage Temp. Range:	-40℃~+85℃
Equivalent Series Resistance (ESR):	80 ohm Max.: 25.00~29.999MHz	△ 80
	60 ohm Max.: 30.00~50.000MHz	△ 60
Drive Level:	100 uW Max.	▲
Shunt Capacitance (C 0):	7.0pF Max.	▲
Aging:	±5ppm Max.	▲
Package:	Tape/Reel	△ T
Other Values:	Lead Free	△ LF

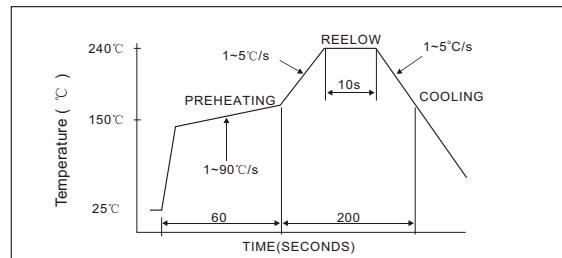
DIMENSIONS



RECOMMENDED SOLDER PAD LAYOUT



SOLDER REFLOW PROFILE



▲ Standard * Specifications Subject to Change Without Notice
 △ Optional: please specify required code when inquiring or ordering

PACKAGE

- Standard package in T/R: 1000pcs/Reel, 1Reel/ box, 5 box/carton
- See page 118 for detail dimensions

PART NUMBER GUIDE

TGS	C	M	32	25M0	A	50	- 20	- 50	- 10	- 80	- T
Mark	Quartz Crystals	SMD Type	3.2X2.5X0.8mm	Freq. Range	Oscillation Mode	Freq. Tolerance	Load Capacitance	Freq. Stability	Operating Temp. Range	ESR	Package

e.g. Full P/N.: TGS CM32 25M0A50-20-50-10-80T
 Short P/N.: CM32 25M0A20T (Others is standard Spec.)

