

# SMD CRYSTALS

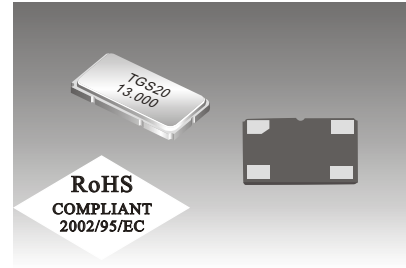
TGS SERIES NO. : CM42

## FEATURES

- Ultra Low Height
- Tight Tolerance and Stability
- 4 pads
- Tape & Reel
- Dimension 4.0x2.5x0.8mm
- Seam Weld Sealing
- Lead Free available

## APPLICATIONS

- Cellular telephones
- PHS
- Cordless telephones and pagers



## SPECIFICATION \*

Parameters	Product	Option Code
	SMD0402	Cm42
Frequency Range:	12.000~50.0MHz	△ 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	△ S	
Other Values	△ 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:	-30℃~+85℃	▲
Equivalent Series Resistance (ESR):	40 ohm Max.: 12.00~50.000MHz	△ 40
Drive Level:	100 uW Max.	▲
Shunt Capacitance (C 0):	0.75pF Max.	▲
Aging:	±3ppm Max.	▲
Package:	Tape/Reel	△ T
Other Values:	Lead Free	△ LF

▲ 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

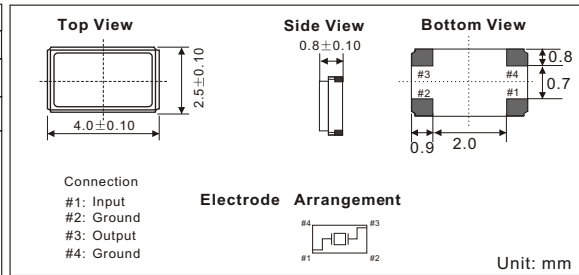
## PART NUMBER GUIDE

TGS	C	M	42	13M0	A	50	- 20	- 50	- 10	- 60	- T
Mark	Quartz Crystals	SMD Type	4.0X2.5X0.8mm	Freq. Range	Oscillation Mode	Freq. Tolerance	Load Capacitance	Freq. Stability	Operating Temp. Range	ESR	Package

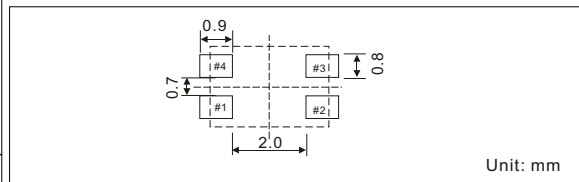
e.g. Full P/N.: TGS CM42 13M0A50-20-50-10-60T

Short P/N.: CM42 13M0A20T (Others is standard Spec.)

## DIMENSIONS



## RECOMMENDED SOLDER PAD LAYOUT



## SOLDER REFLOW PROFILE

