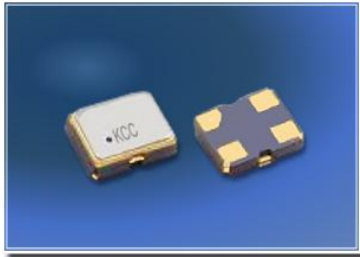


K.C.C Crystal Oscillator (SO-22 Series)



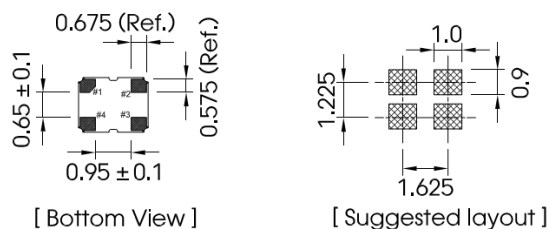
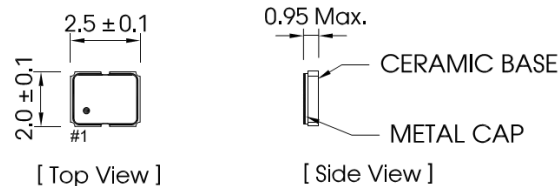
Features & Applications

- 2.5x2.0x0.95mm Size
- Ceramic Package
- CMOS Output
- Low Power Consumption
- RoHS Compliant.

General Specifications

Parameter	SO-22 Series			
	SO-221	SO-222	SO-223	SO-22W
Input Voltage	+1.8V ± 5%	+2.8V ± 5%	+3.3V ± 10%	+1.62~3.63V
Frequency Range	2 ~50.0 MHz			
Frequency Stability	A:±25, B: ±50, C: ±30, D: ±20 ppm			
Operating Temperature Range	-10 to +70°C ; -40 to +85°C			
Storage Temperature Range	-55 to +125°C			
Input Current (mA Max.)	2~9.99MHz	3	6	7
	10~19.99MHz	5	8	7
	20~31.99MHz	5	8	12
	32~50.00MHz	10	20	20
Output Logic High " 1 "	90% VDD			
Output Logic Low " 0 "	10% VDD			
Output Symmetry	40% to 60% (at 50%VDD)			
Rise and Fall Time (ns Max.)	2~9.99MHz	5	7	6
	10~19.99MHz	5	7	6
	20~31.99MHz	5	6	5
	32~50.00MHz	5	6	5
Output Load	15pF typical			
Start-Up Time	10ms (Max)			
Aging Rate	±5ppm / Year Max.			

Outline and Dimensions [Unit: mm]



Pin	Connection
#1	E/D
#2	Ground
#3	Output
#4	+VDD

Enable/Disable Function

E/D (#1)	Output (#3)
HIGH (Open)	Operating
LOW	High impedance

Order Part No.:

Product name: **Q 25.000M 22 3 B - G T Z**

① ② ③④⑤ ⑥⑦⑧

- ① KCC Oscillator
- ② Frequency
- ③ Size Type : SO-22=2.5x2.0x0.95mm
- ④ Input Voltage : 3=3.3V
- ⑤ Frequency Stability : B=±50ppm
- ⑥ RoHS Compliant
- ⑦ Operating temperature : T= -40°C to +85°C
- ⑧ Internal identification code