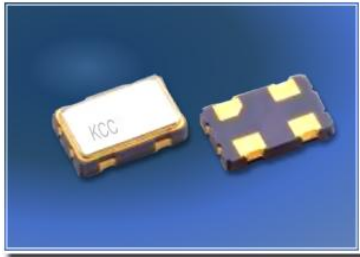


## K.C.C Crystal Oscillator (SO-53 Series)



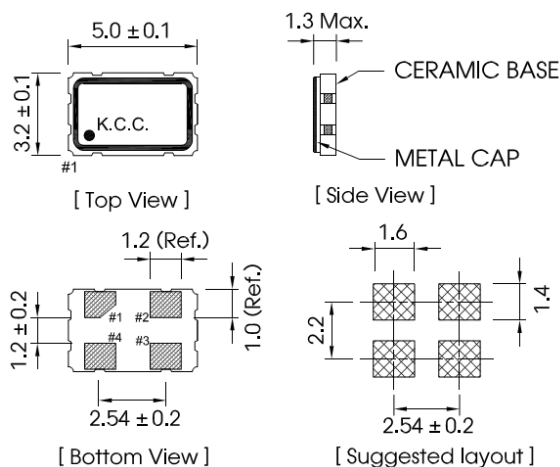
### Features & Applications

- 5.0x3.2x1.3mm Size
- Ceramic Package
- CMOS Output
- Low Power Consumption
- RoHS Compliant.

### General Specifications

Parameter	SO-53 Series					
	SO-531	SO-532	SO-533	SO-535	SO-53W	
Input Voltage	+1.8V ± 5%	+2.5V ± 5%	+3.3V ± 10%	+5.0V ± 10%	+1.62~3.63V	
Frequency Range	0.5 ~156.0 MHz	0.5 ~156.0 MHz	0.5~156.0 MHz	0.5 ~100.0 MHz	5~54.0 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.)	0.5~9.99MHz	5	6	7	10	10
	10~19.99MHz	6	8	7	15	15
	20~31.99MHz	6	8	12	25	25
	32~49.99MHz	15	20	20	35	35
	50~79.99MHz	15	20	25	50	50
	80~99.99MHz	20	25	30	60	60
	100~156.0MHz	25	30	40	80	80
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.)	0.5~31.99MHz	5	5	10	10	10
	32~49.99MHz	5	5	10	6	6
	50~79.99MHz	4	4	8	5	5
	80~99.99MHz	3	3	5	5	5
	100~156.0MHz	3	3	4	4	4
Output Load	15pF typical					
Start-Up Time	10ms (Max)					
Aging Rate	±5ppm / Year Max.					

### Outline and Dimensions [Unit: mm]



### Enable/Disable Function

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

### Order Part No.:

Product name: **O 25.000M 53 3 A - G T Z**

① ② ③④⑤ ⑥⑦⑧

- ① KCC Oscillator
- ② Frequency
- ③ Size Type : SO-53=5.0x3.2x1.3mm
- ④ Input Voltage : 3~3.3V
- ⑤ Frequency Stability : A=±25ppm
- ⑥ RoHS Compliant
- ⑦ Operating temperature : T= -40°C to +85°C
- ⑧ Internal identification code

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