

## QC5032 Series

ROHS Compatible

### & Feature:

- . Small SMD type clock crystal oscillator units . (5.0\*5.03.2\*1.0mm)
- . High precision characteristic covering up to wide frequency range
- . Designed for automatic mounting and reflow soldering .
- . Optional stand-by function for output: Tri-state output.
- . Supply Voltage Range: 1.8V to 5.0V (1.8V / 2.5V / 2.8V / 3.3V / 5.0V).
- . High stability, low jitter, low power consumption
- . Lead free parts.

### & Electrical Specifications

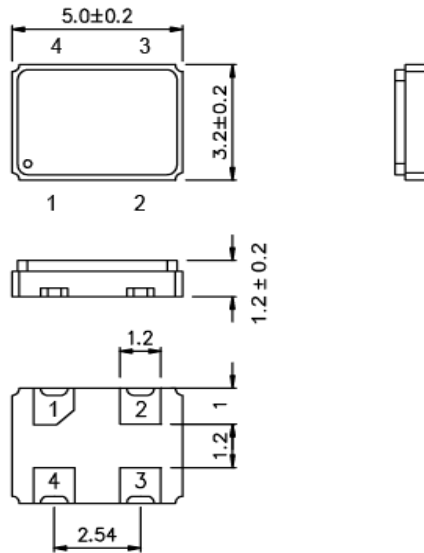
Parameters		Condition\Model	QC5032			
Fan Out Type			CMOS			TTL
Supply Voltage		5.0V±10%	3.3V/2.8V/2.5V±10%	1.8V±10%	5.0V±10%	
Frequency Range		1.5~200MHz		1.5~80MHz	1.5~200MHz	
Operating Temperature		0-+70°C, -20-+70°C, -40-+85°C				
Storage Temperature		-55-+125°C				
Frequency Stability	All Conditions	±25, ±50, ±100ppm				
Aging		±3ppm/year				
Symmetry	AT 1/2 Vdd	40/60%, 45/55%				
Output Voltage	Vol (max)	0.18V/0.25V/0.28V/0.33V/0.5V				
	VoH(min)	1.62V/2.25V/2.52V/2.97V/4.5V				
Supply Current		45mA Max.	30mA Max.	20mA Max.	45mA Max.	30mA Max.
Rise/Fall Time	AT 0.1Vdd~0.9Vdd	10ns max				
Driving Ability	Output Load	15/50pF	15/30pF	15F	10TTL gate	5TTL gate
Start-up Time	Load RANGE	10ms max (15pF)/5ms (50pF)				
E/D Function	#1 OPEN	PIN #2 ACTIVE				
	#1 >=2.2V	PIN #2 ACTIVE				
	#1 <=0.8V	PIN #2 ACTIVE				
PAD Connection		PIN#1 E/D			PIN#3 OUT	
		PIN#2 GND			PIN#4 Vdd	

# Crystal Oscillator

Seam sealed oscillator 5.0×3.2mm



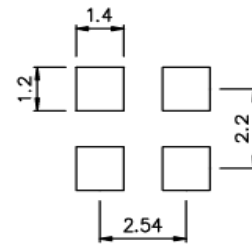
## & Dimension:



Units: mm

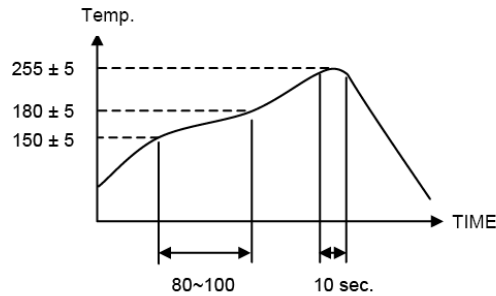
### Pin Functions:

1. STAND BY
2. GND
3. OUT PUT
4. VDD



Suggested Layout

## & Reflow Condition:



Total time : 200 sec. Max.

## Part number:

QC7050	40.000	3.3	50	X	A
Model type 7.0×5.0mm	Frequency 40.000: 40.000MHz	Supply voltage 5:5V 3.3: 3.3V	Frequency tolerance 50:±50ppm 25:±25ppm	Fan out type X:TTL/CMOS Y:CMOS Z: TTL	Temperature range A:0-70°C B:-20-70°C C:-40-85°C