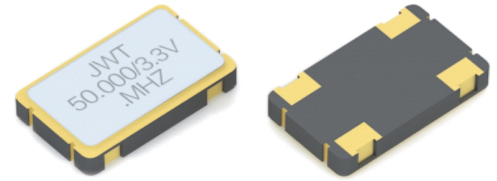




7.0x5.0 mm SMD Oscillator

YA Series



Product Features

1. Supports a wide temperature range from -40 to $+125^{\circ}\text{C}$
2. Supports a wide frequency range
3. Ultra small SMD seam sealed crystal oscillator

Applications

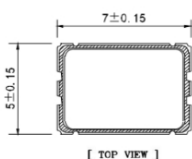
1. Industrial control
2. Intelligent IoT
3. Smartphone, Tablet computers, Notebook PC, PC card, etc

Specifications

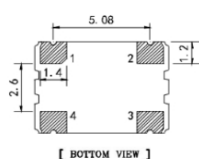
Model	YA7050		
Supply voltage (VDD)	0.9-2.0V/1.35V~5.5V		
Frequency range	0.032768~156.250MHz		
Oscillation mode	Fundamental or 3rd overtone		
Frequency tolerance at 25°C±3°C	±10ppm、±20ppm		
Operating temperature range	-40°C~85°C	-40°C~105°C	-40°C~125°C
Frequency stability over temperature(Ref.to 25°C)	±20ppm	±30ppm	±50ppm
Storage temperature range	-55°C~125°C		
Duty cycle	45~55%		
Current consumption	32.768KHz	0.5mA Max	
	1~54.000MHz	10mA Max	
	3rd overtone	40mA Max	
Output waveform	CMOS		
Start-up time	5.0ms Max		
Rise/Fall time (10%~90%VDD Level)	5.0ns Max		
Tri-State	Output enable	70% VDD	
	Output disable	30% VDD	
High output voltage	0.9 VDD		
Low output voltage	0.1 VDD		
Output load	15pF,30pF,50pF		
Aging at first year	±3.0ppm		

Notes: The above parameters are for normal demands, If you have any different demands, Please contact us.

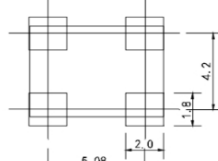
Dimensions (Unit: mm)



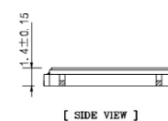
[TOP VIEW]



[BOTTOM VIEW]



[Suggested solder pad layout]



[SIDE VIEW]

Pin	Function
#1	Tri-State
#2	GND
#3	OUTPUT
#4	VCC