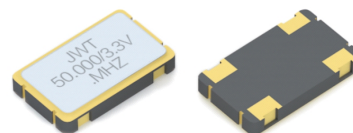


2.5x2.0mm SMD Oscillator

YMC Series



Product Features

1. Supports a wide temperature range from -40 to $+125^{\circ}\text{C}$
2. Supports a wide frequency range
3. Conforms to AEC-Q100/200.

Applications

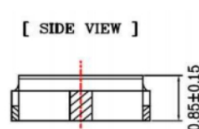
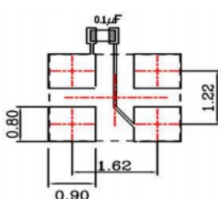
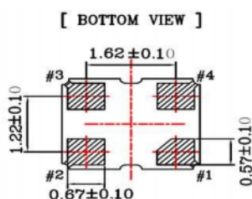
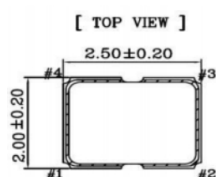
1. Smartphone, Tablet computers, Notebook PC, PC card
2. Audioequipment and wireless module
3. Automotive (BMS、TPMS、V2X、T-BOX、RADAR)

Specifications

Model		YMC2520		
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)



Pin	Function
#1	N/C
#2	GND
#3	OUTPUT
#4	VCC