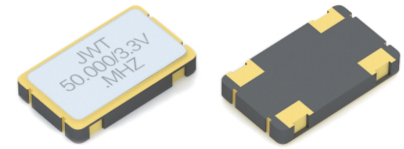




# 3.2x2.5mm SMD Oscillator

## YFC 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

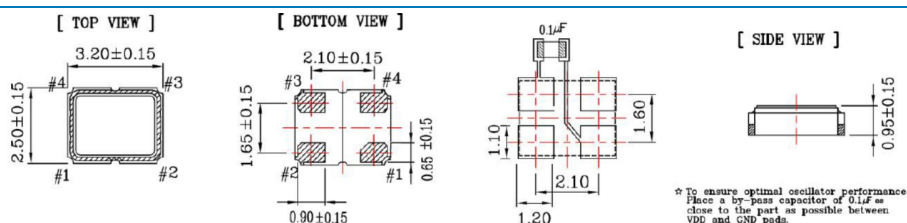
1. Smartphone, Tablet computers, Notebook PC, PC card
2. Audioequipment and wireless module
3. Automotive (BMS、TPMS、V2X、T-BOX、RADAR)

### Specifications

|                                                   |                             |             |             |
|---------------------------------------------------|-----------------------------|-------------|-------------|
| Model                                             | YFC3225                     |             |             |
| 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      |