

| Dimension (mm) | |
|----------------|-----|
| Length: | 3,2 |
| Wide: | 2,5 |

Ceramic Body with Metal Cap



SPECIFICATION:

| | |
|------------------------|---------------------------------|
| Frequency Range: | 1,000 ~ 50,0 Mhz |
| Operation Mode: | C-MOS / HC-Mos |
| Operating Temperature: | .-10°C ~ +70°C / -40°C ~ + 85°C |
| Storage Temperature: | .-55°C ~ +125°C |
| Frequency Stability: | 25ppm / 50ppm |
| Temperature Stability: | ./+/-20ppm ~ +/-100ppm |
| Output Current: | ± 8mA max. |
| Output Voltage Voh | 90% Vdd |
| Output Voltage Vol | 10% Vdd |
| Start-Up time: | 10ms max. |
| Aging @ xx per Year | ./+/- 5ppm |
| Operating Voltage | 2,8V±5%, 3,3V±5% |
| Output Load | 15pf |

Technical and Mechanical Explanation

| | |
|----------------------|---|
| Temperature cycling: | . +/-5ppm max. -55°C to +85°C, 3Cycles, 2hours max. Reference 25°C. |
| Thermal Shock: | . +85°C and -55°C. Exposure time at extreme temperature for 5 minutes, 3 cycles. |
| Vibration: | Frequency with an amplitude of 1,5mm sweeping between 10Hz to 55Hz within 1 minute for 2 hours minimum on each axis (x,y,z) |
| Drop test: | Natural drop on a hard wood board at 75cm , 3 times |
| Humidity: | 85% RH at +85°C, 96 hours minimum |
| Marking permanency: | Dip units in solvents, 10strokes with brush , 3 times |
| Fine leak test: | Helium leak, <2E-8atm. Cc/sec. |
| Gross leak test: | 100% in De-ionized water or Perfluorocarbon for 60s. Min. |
| Solderability: | Dip in solder (255°C +/- 5°C for 5 seconds. More than 95% of surface being tested should be coated uniformly with solder. |
| Lead bend: | Will with stand maximum bend of 90°C reference to base for 2 bends. |

SPECIFICATION:

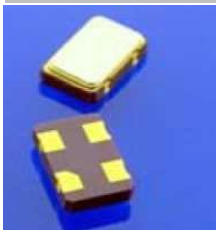
| | | |
|---------------------|------------------|-----------|
| Current consumption | 1,0Mhz ~ 50,0MHz | 40mA max. |
| Rise & Fall Time | 1,0Mhz ~ 50,0MHz | 8ns. Max |

Inclusive of initial frequency tolerances at 25°C operating temperature range, supply voltage change, load variation and 1st year aging. Please consult our sales representation for other specifications.

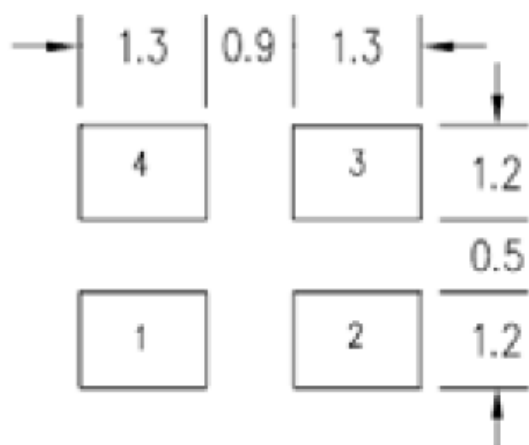
**Quarz Crystal Oscillator
3,2x2,5mm**

Part No.: **O14006**

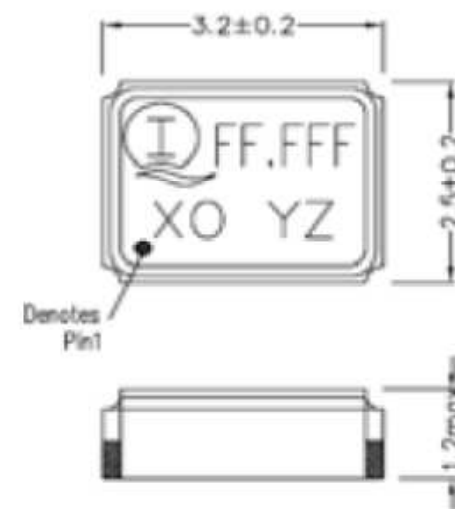
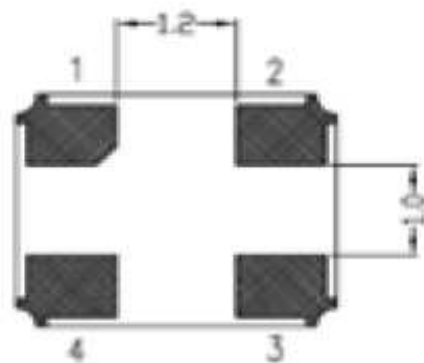
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|-------|----|------|--------|--------|-----|-----------|-----------|----------|------------|-----------|
| DRW: | HQ | CHKD | Wilson | MATL: | WHX | TOLERANCE | John | DATE | 15.12.2021 | Customer: |
| APPD: | YQ | HHQ | | FINISH | XM | | Sheet No. | 1 from 4 | | |



P.C.B Layout



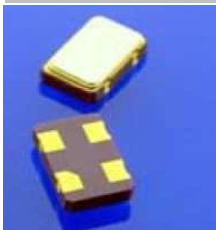
Drawing



| | |
|---|--------|
| 1 | E/D |
| 2 | GND |
| 3 | OUTPUT |
| 4 | +Vcc |

| | |
|---|---------------|
| Quarz Crystal Oscillator 3,2x2,5mm | |
| Part No.: | O14006 |
| Customer: | |

| | | | | | | | | | |
|-------|----|------|--------|--------|-----|-----------|-----------|----------|------------|
| DRW: | HQ | CHKD | Wilson | MATL: | WHX | TOLERANCE | John | DATE | 15.12.2021 |
| APPD: | YQ | HHQ | | FINISH | XM | | Sheet No. | 2 from 4 | |



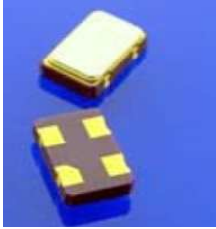
Ordering Informations

| Serie | Frequency | Frequency Stability (ppm) | Temperature Stability (ppm) | Operating Temperature | Voltage Select | Type | ROHS Conform | Packing |
|---------------|-----------------|---------------------------|-----------------------------|-----------------------|----------------|----------|--------------|-----------|
| O14006 | xxMxxxxx | B | | A | 2 | C | R | TR |

| | | | | | | | |
|-------------------------------------|-----------------|--|-------------------------|-------------------|------------------|----------------------------|-----------------------------|
| xMxxxxxx Mhz (max 8 Letters) | | | A= -10°C ~ +70°C | 1= 1,8Volt | C= C-Mos | R= Rohs Conform | BU= Bulk Ware |
| | B= 50ppm | | | 2= 2,5Volt | H= HC-Mos | N= NON Rohs Conform | TR= Tape Reel 1K PCS |
| | | | C= -40°C ~ +85°C | 3= 3,3Volt | | | |
| | D= 25ppm | | | 5= 5,0Volt | | | |
| | E= 10ppm | | | | | | |

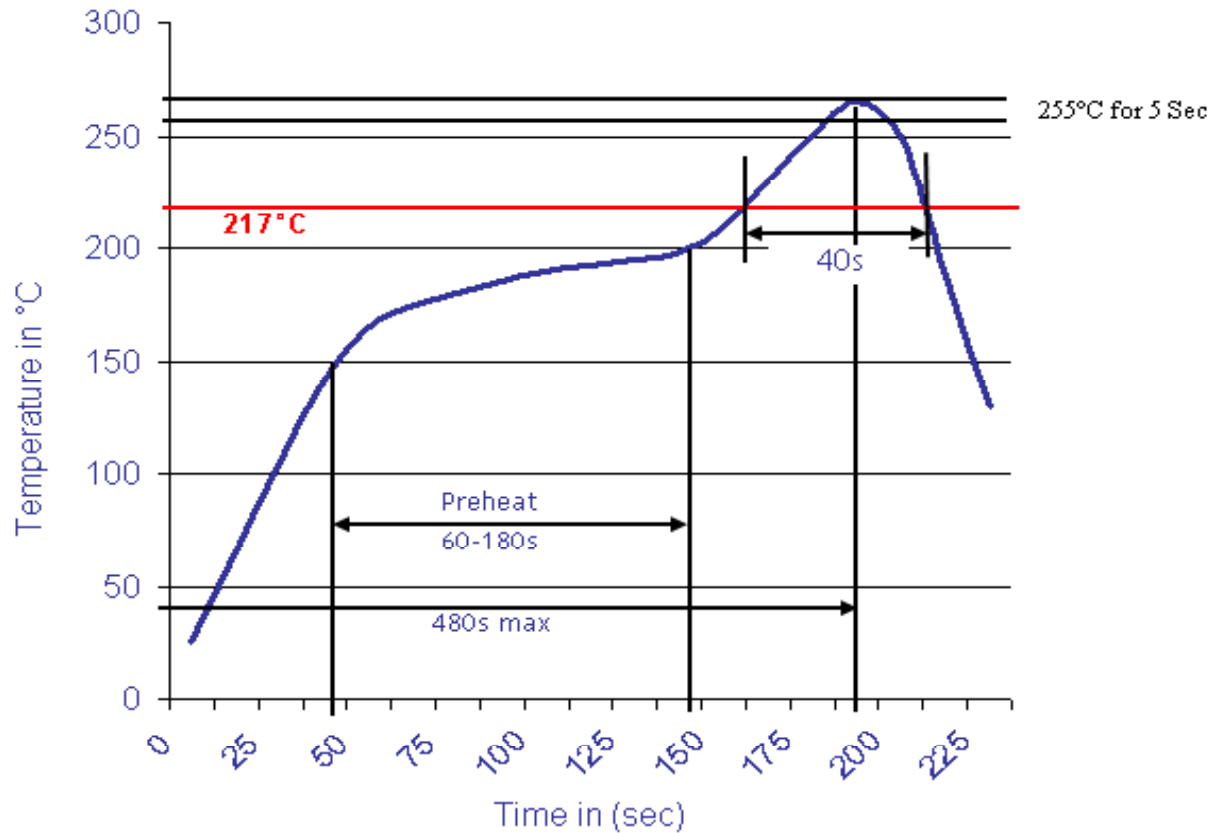
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|---|
| Quarz Crystal Oscillator 3,2x2,5mm |
| Part No.: O14006 |
| Customer: |

| | | | | | | | | | |
|-------|----|------|--------|--------|-----|-----------|-----------|------|------------|
| DRW: | HQ | CHKD | Wilson | MATL: | WHX | TOLERANCE | John | DATE | 15.12.2021 |
| APPD: | YQ | HHQ | | FINISH | XM | | Sheet No. | | 3 from 4 |



Soldering Conditions

Classification Reflow Profile (JEDEC J-STD-020C)



**Quarz Crystal Oscillator
3,2x2,5mm**

Part No.: **O14006**

| | | | | | | | | | |
|-------|----|------|--------|--------|-----|-----------|-----------|----------|------------|
| DRW: | HQ | CHKD | Wilson | MATL: | WHX | TOLERANCE | John | DATE | 15.12.2021 |
| APPD: | YQ | HHQ | | FINISH | XM | | Sheet No. | 4 from 4 | Customer: |