

# QUARTZ CRYSTAL MHZ

Part Number: 830106584401 | CFPX-104

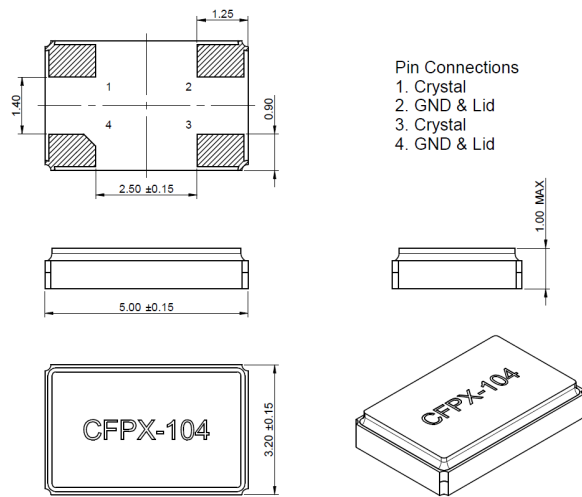
AKA Number: LFX TAL065844



## General Information

Standard 5x3.2 mm SMD crystal with four pads. Ceramic package with a seam sealed metal lid, hermetically sealed.

## Dimensions [mm]

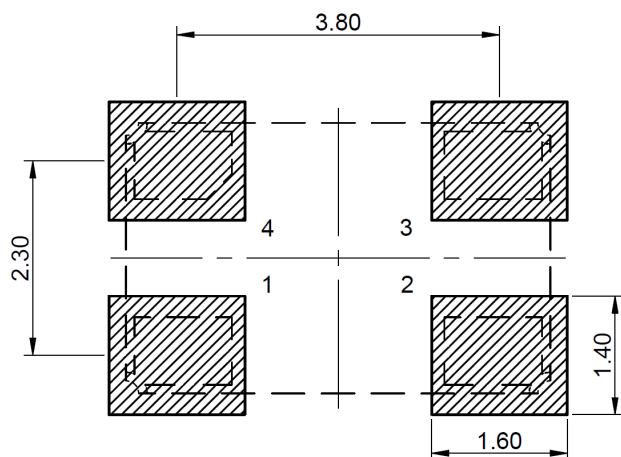


### Pin Connections

1. Crystal
2. GND & Lid
3. Crystal
4. GND & Lid

NOTE: The chamfer may appear on pad 1 or 4.  
This causes no change to the electrical performance of the device.

## Recommended Land Pattern [mm]



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## Frequency Parameters

|                       |                              |
|-----------------------|------------------------------|
| Frequency             | 24.0 MHz                     |
| Frequency Tolerance   | ± 30 ppm @25 °C              |
| Frequency Stability   | ± 30 ppm                     |
| Operating Temperature | -20 °C to 70 °C              |
| Overtone Order        | Fundamental                  |
| Ageing                | ± 3 ppm max per year @ 25 °C |

## Material Parameters

|                                  |                   |
|----------------------------------|-------------------|
| Termination Finish               | Au 0.3 µm to 1 µm |
| Moisture Sensitivity Level (MSL) | Not Applicable    |

## Manufacturing Details

Reflow: 260 °C max for 30 seconds max.

## Company Address

IQD Frequency Products Ltd.  
Station Road  
Crewkerne  
Somerset  
TA18 8AR, United Kingdom

## Electrical Parameters

|                         |             |
|-------------------------|-------------|
| Load Capacitance $C_L$  | 12 pF       |
| Shunt Capacitance $C_0$ | 7 pF max.   |
| Drive Level             | 100 µW max. |
| ESR                     | 40 Ω max.   |

## Environmental Parameters

|                                                                                                                                                                                                                                                                 |                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Storage Temperature Range:                                                                                                                                                                                                                                      | -55 °C to 125 °C |
| <ul style="list-style-type: none"><li>Shock: 1500 g, 0.5 ms, 3 times in each of 3 mutually perpendicular planes.</li><li>Vibration: MIL-STD-883F, 20 g (20 Hz ~ 2000 Hz), 1.52 mm amplitude, 20 minutes in 3 mutually perpendicular planes, 4 cycles.</li></ul> |                  |

## Technical Standards

|              |                         |
|--------------|-------------------------|
| RoHS Status  | 2015/863/EU - Compliant |
| REACH Status | Compliant               |

## Packaging Details

|                                                                     |                      |
|---------------------------------------------------------------------|----------------------|
| Packaging SPQ                                                       | Tape & Reel 1000 pcs |
| Tape & reel in accordance with EIA-481                              |                      |
| Quantities below the standard reel size to be supplied on cut tape. |                      |