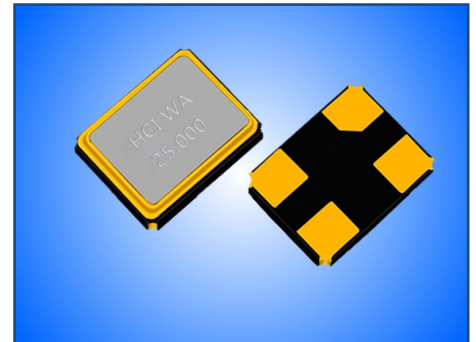


**QUARTZ CRYSTAL UNIT IN SMD 2.0x1.6MM CERAMIC SEAM SEAL PACKAGE.**
**PRODUCT FEATURES**

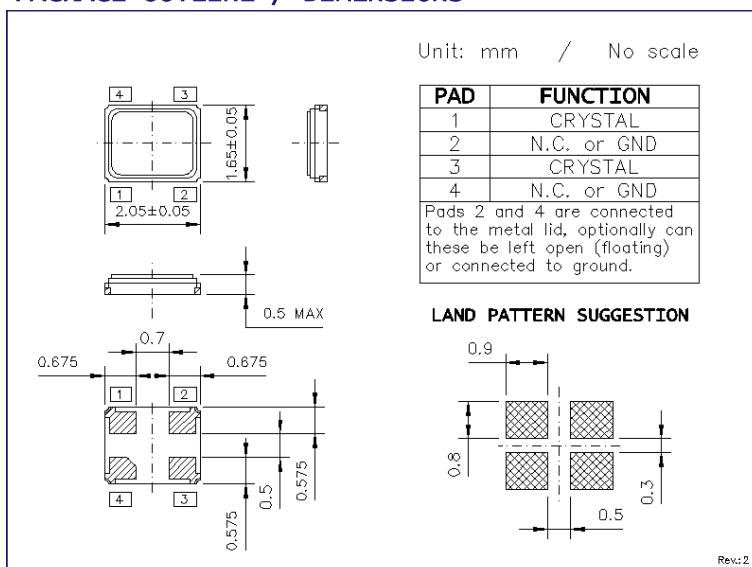
- Ultra-miniature unit dimensions 2.0x1.6x0.45 with 4 pads.
- Highly reliable vacuum seam sealed ceramic package.
- Tight tolerances and stabilities over temperature range.
- Automotive compliance to AEC-Q200 available.
- RoHS compliant, LEAD-FREE and HALOGEN-FREE.

**PRODUCT PHOTO (NOT IN SCALE)**

**APPLICATIONS**

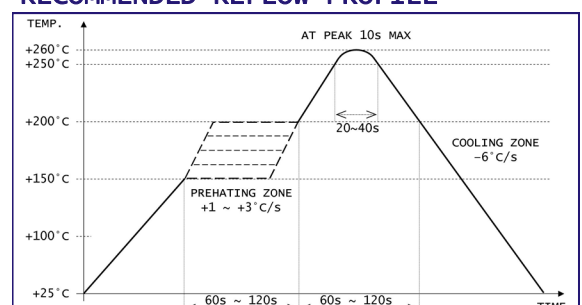
- Wireless LAN
- Bluetooth
- Mobil communication
- Handheld equipment

**PRODUCT SPECIFICATIONS**

| PARAMETER                    | 0121M4                   |              | CONDITIONS / REMARKS     |
|------------------------------|--------------------------|--------------|--------------------------|
| Nominal frequency range      | 20.000 ~ 60.000MHz       |              | --                       |
| Crystal cut and mode         | AT-cut / Fundamental     |              | --                       |
| Frequency tolerance          | ±10ppm / ±20ppm / ±30ppm |              | Other options available. |
| Frequency stability          | ±15ppm                   | ±20ppm       | Other options available. |
| Operating temperature range  | -20 to +70°C             | -30 to +85°C | Other options available. |
| Equivalent series resistance | <125Ω                    |              | 20.000 to 23.999MHz      |
|                              | <100Ω                    |              | 24.000 to 29.999MHz      |
|                              | <80Ω                     |              | 30.000 to 39.999MHz      |
|                              | <60Ω                     |              | 40.000 to 60.000MHz      |
| Load capacitance             | 6 ~ 32pF or SERIES       |              | Please specify.          |
| Shunt capacitance            | <3.0pF                   |              | --                       |
| Drive level                  | 10μW TYP / 100μW MAX     |              | --                       |
| Storage temperature range    | -55 to +125°C            |              | --                       |

**PACKAGE OUTLINE / DIMENSIONS**

**PACKAGING INFORMATION**

- Tape & Reel compliant to EIA-481.
- Embossed carrier width 8mm.
- Component pitch in carrier 4mm.
- Reel diameter 180mm.
- QTY per reel: 3,000pcs MAX.

**RECOMMENDED REFLOW PROFILE**


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