

**QUARTZ CRYSTAL UNIT IN SMD 3.2x2.5MM CERAMIC SEAM SEAL PACKAGE.**
**PRODUCT FEATURES**

- Small dimensions 3.2x2.5x0.6 with 4 solder pads.
- Highly reliable vacuum seam sealed ceramic package.
- Tight tolerances and stabilities over temperature range.
- Automotive compliance to AEC-Q200.
- RoHS compliant, LEAD-FREE and HALOGEN-FREE.

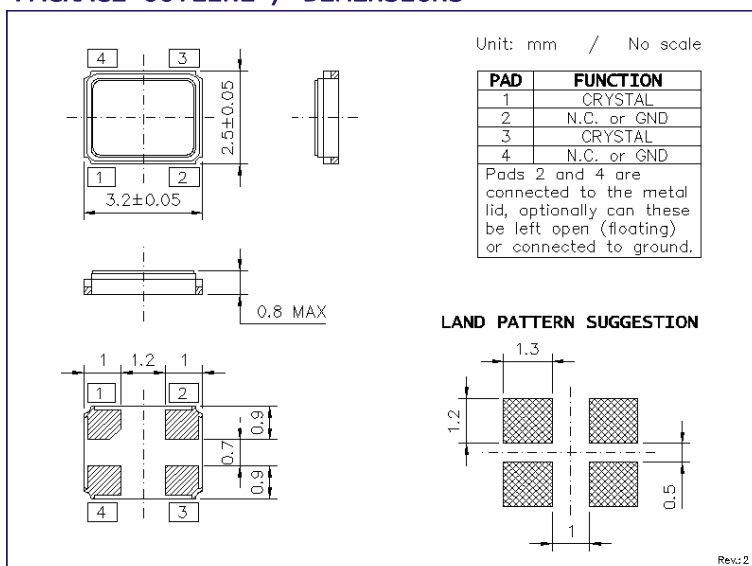
**APPLICATIONS**

- Wireless LAN
- Bluetooth
- Mobil communication
- Handheld equipment

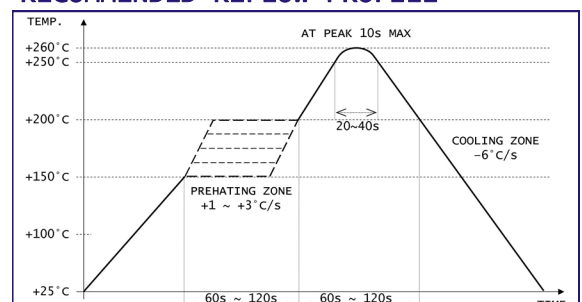
**PRODUCT PHOTO (NOT IN SCALE)**

**PRODUCT SPECIFICATIONS**

PARAMETER	0132M4		CONDITIONS / REMARKS
Nominal frequency range	8.000 ~ 60.000MHz		--
Crystal cut and mode	AT-cut / Fundamental		--
Frequency tolerance	±10ppm / ±20ppm / ±30ppm		Other options available.
Frequency stability	±10ppm	±15ppm	Other options available.
Operating temperature range	-20 to +70°C	-30 to +85°C	Other options available.
Equivalent series resistance	<100Ω		12.000 to 15.999MHz
	<80Ω		16.000 to 18.999MHz
	<60Ω		19.000 to 29.999MHz
	<40Ω		30.000 to 54.000MHz
Load capacitance	6 ~ 32pF or SERIES		Please specify.
Shunt capacitance	<3.0pF		--
Drive level	100μW TYP / 300μW 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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