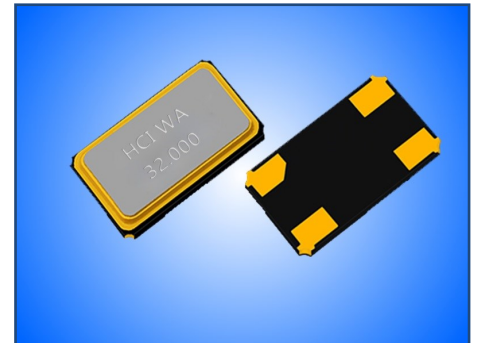


**QUARTZ CRYSTAL UNIT IN SMD 6.0x3.5MM CERAMIC SEAM SEAL PACKAGE.**
**PRODUCT FEATURES**

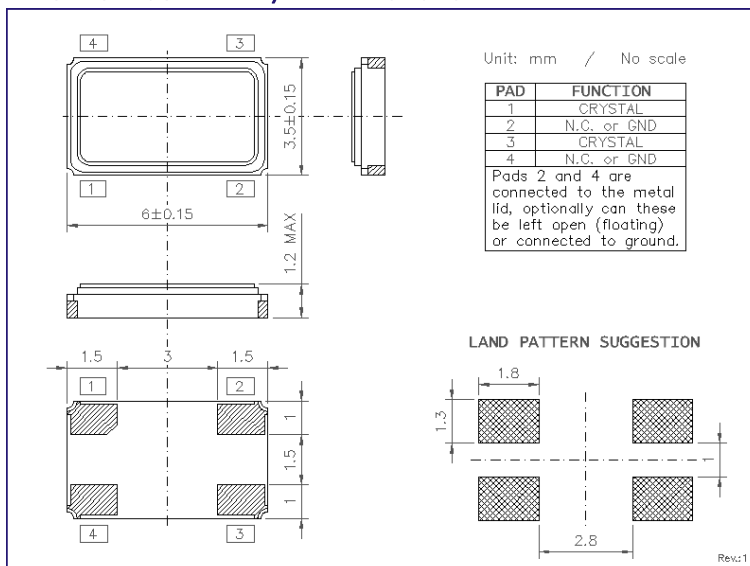
- Dimensions 6.0x3.5x1.0 with 4 solder pads.
- Highly reliable seam sealed ceramic package.
- Tight tolerances and stabilities over temperature range.
- Automotive compliance to AEC-Q200 available.
- RoHS compliant, LEAD-FREE and HALOGEN-FREE.

**APPLICATIONS**

- Wireless LAN
- Bluetooth
- Mobil communication
- Handheld equipment

**PRODUCT PHOTO (NOT IN SCALE)**

**PRODUCT SPECIFICATIONS**

PARAMETER	0163M4		CONDITIONS / REMARKS	
Nominal frequency range	8.000 ~ 80.000MHZ		Fundamental up to 55MHZ and 3rd overtone available.	
Crystal cut and mode	AT-cut / FUND & 3rd OT			
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	<b>FUND</b>	<b>ESR</b>	16.1 to 20.0MHZ	<45Ω
	8.0MHZ	<100Ω	20.1 to 55.0MHZ	<40Ω
	8.1 to 10.0MHZ	<80Ω	<b>3rd OT</b>	<b>ESR</b>
	10.1 to 12.0MHZ	<60Ω	30.0 to 48.0MHZ	<100Ω
	12.1 to 16.0MHZ	<50Ω	48.1 to 80.0MHZ	<80Ω
Load capacitance	6 ~ 32pF or SERIES		Please specify.	
Shunt capacitance	<5.0pF		--	
Drive level	100μW TYP / 500μW MAX		--	
Storage temperature range	-55 to +125°C		--	

**PACKAGE OUTLINE / DIMENSIONS**

**PACKAGING INFORMATION**

- Tape & Reel compliant to EIA-481.
- Embossed carrier width 12mm.
- Component pitch in carrier 8mm.
- Reel diameter 180mm.
- QTY per reel: 1,000pcs MAX.

**RECOMMENDED REFLOW PROFILE**
