



MS306 Series
Miniature Surface Mount Plastic Crystals

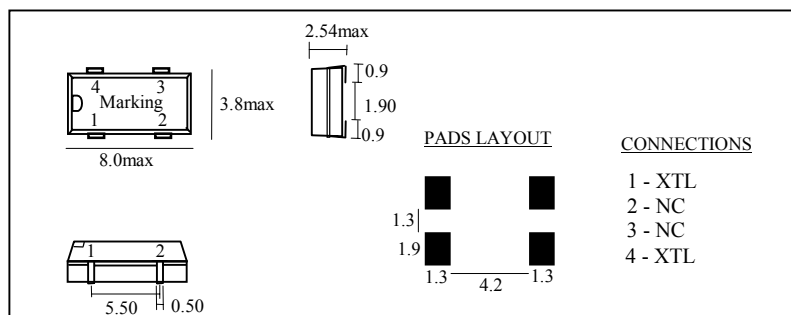
- FEATURES**
- . Miniature Low-Profile SMD Crystal
 - . 32.768KHz (Real Time Clock) - 165KHz Range
 - . Excellent Solderability

SPECIFICATIONS (subject to change w/o notice)

Parameters	MS306	MS306 (Custom Frequency)
Frequency	32.768KHz standard	20.000KHz ~ 165KHz
Operating Temp.	-10°C~+60°C to -40°C~+85°C	-10°C~+60°C to -40°C~+85°C
Storage Temp.	-50°C~+100°C	-50°C~+100°C
Frequency Tolerance	±20/30/50ppm @ 25°C ±5°C	±20/30/50ppm @ 25°C ±5°C
Frequency Stability	-0.034ppm ± 0.006ppm/°C ² Parabolic Curve (ref. to 25°C)	-0.034ppm ± 0.006ppm/°C ² Parabolic Curve (ref. to 25°C)
Peak Frequency Temp.	25 ± 5°C	25 ± 5°C
Load Capacitance	6, 12.5, 18pF (other values available)	6, 12.5, 18pF (other values available)
Shunt Capacitance	1.5pF	2.0pF ~ 0.6pF
Motional Capacitance	0.003pF	0.003pF
Drive Level	1.0μW	1.0μW
Series Resistance	50KΩ max	50KΩ ~ 10 KΩ max
Aging (25°C)	±3ppm max/year	±5ppm max/year
Insulation Resistance	500MΩ min @ 100VDC	500MΩ min @ 100VDC

OUTLINE

(mm) not to scale



PART NUMBERING

Model	Frequency	Load Capacitance	Tolerance	Packaging
MS306	KHz Value	pF Value	5: 50ppm 4: 30ppm 3: 20ppm 2: NA 1: NA	Blank: Bulk R: Tape & Reel
Example: MS306-32.768-12.5-4				