

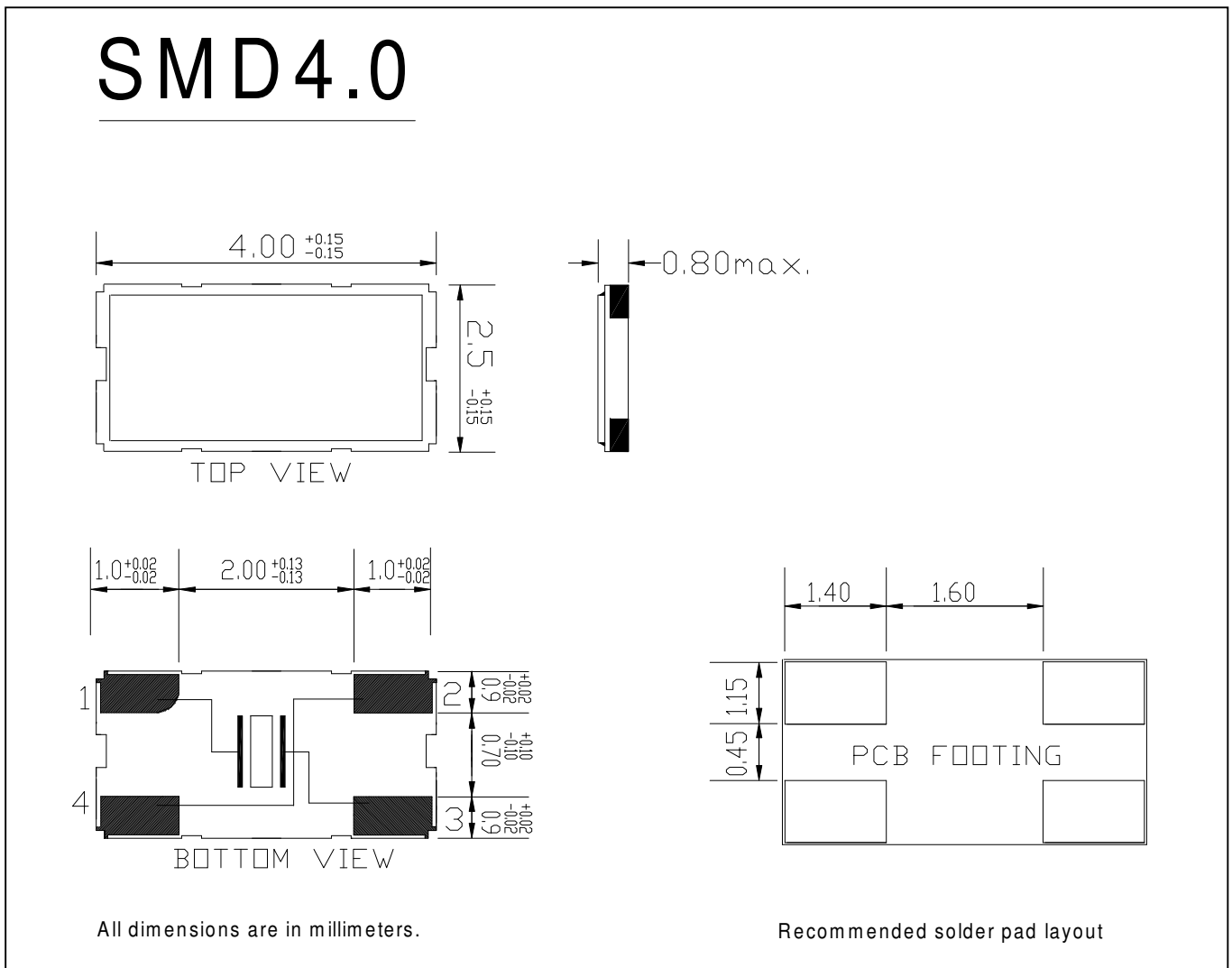
SMD 4.0

Features

- ultra-miniature size
- 0.8mm height
- seam sealing
- excellent anti-shock holding
- SMD type

Applications

- bluetooth
- RF remote controls
- WLAN modems
- general purpose



Specifications

NOMINAL FREQUENCY	12MHz fundamental - 32MHz (3rd overtone)
FREQUENCY TOLERANCE	±10PPM ~ ±30PPM
LOAD CAPACITANCE (CL)	8pF~12pF or series
RESONANCE RESISTANCE (RR)	see table below
FREQUENCY STABILITY	±10PPM ~ ±50PPM
TEMPERATURE RANGE	-20°C ~ +70°C
SHUNT CAPACITANCE (CO)	3pF max
DRIVE LEVEL	0.1mW
INSULATION RESISTANCE	500MΩmin / DC 100V
AGING	±2ppm / yr max in first yr.

Resistance Table (ESR)

Frequency Range(MHz):	Vibration mode	
12.000+ ~ 20.000	80	fundamental
20.000+ ~ 26.000	70	fundamental
26.000+ ~ 32.000	50	fundamental

Frequency vs Operating Temp Table

Temp(°C)	PPM							
	±5	±7.5	±10	±15	±20	±30	±50	
0 ~ +50	*	*	*	*	*	*	*	
-10 ~ +60	*	*	*	*	*	*	*	
-20 ~ +70	*	*	*	*	*	*	*	
-30 ~ +80		*	*	*	*	*	*	
-40 ~ +85			*	*	*	*	*	