

# PRODUKT-INFO

## CPX-49SM SMD CRYSTAL

### FEATURES

1. Seam welded ceramic package assures high stability and reliability.
2. Compact design.
3. Low in height 1,2 mm max. suitable for thin equipment.
4. Automatic mounting by taping and reflow soldering can be accommodated.

### APPLICATION

Can be used for communication equipment, Portable telephone, PHS, IC card, GPS, and other high accuracy devices.



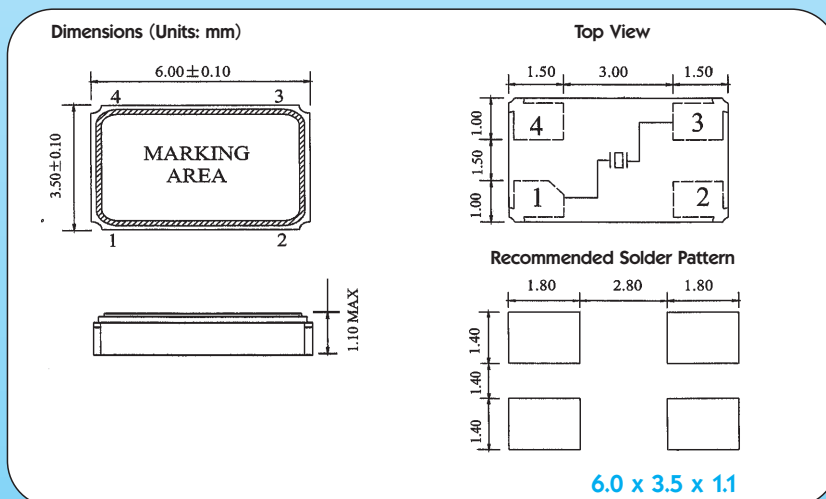
Actual Size



ELECTRICAL SPECIFICATIONS	
Model	CPX-49SM
Frequency Range	8.0 MHz ~ 80.0 MHz
Frequency Tolerance (at +25°C)	±10 ppm / ±30 ppm / ±50 ppm
Operating Temperature Range	-20°C to +70°C, -40°C to +85°C option
Frequency Stability	±10 ppm / ±30 ppm / ±50 ppm
Equivalent Series Resistance	see Table 1
Load Capacitance (C <sub>L</sub> )	10 pF ~ Series (Customer Spec.)
Drive Level	100 µW (300 µW max.)
Aging (at +25°C) first year	±2 ppm / year max.

Table 1

Frequency Range	ESR Ω max.	Mode / Cut
8.000 MHz ~ 9.999 MHz	100	Fundamental / AT
10.000 MHz ~ 11.999 MHz	80	Fundamental / AT
12.000 MHz ~ 15.999 MHz	60	Fundamental / AT
16.000 MHz ~ 39.999 MHz	40	Fundamental / AT
40.000 MHz ~ 80.0000 MHz	70	3rd Overtone



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