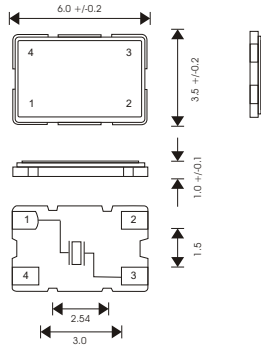


# Specify AEL

## Ultra-Miniature Ceramic SMD Crystals SXK Type



Surface Mounted Quartz Crystal Resonators



### FEATURES

- 6mm x 3.5mm Footprint
- Suitable for Reflow Soldering
- Choice of Pad Layout
- 5PPM Available

### APPLICATIONS

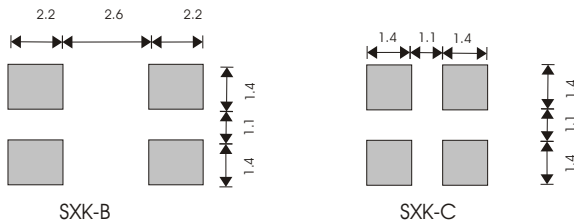
- PCMCIA Applications
- Datacommunications
- Telecommunications
- Bluetooth

### STANDARD SPECIFICATION

Frequency Range: 12.0 MHz to 67MHz  
 Adjustment Tolerance at 25°C: 50PPM Max.  
 Frequency Stability: 50PPM  
 Operating Temperature Range: -10°C to +60°C  
 Load Capacity: 30pF  
 E.S.R: See Table  
 Drive level: 100 MicroWatt  
 Ageing: 5PPM 1st Year Max.

Frequency Range	E.S.R	Mode
12.0 MHz ~ 15.99 MHz	60	Fund
16.0 MHz ~ 40.00 MHz	40	Fund
28.0 MHz ~ 67.00 MHz	70	3 O/T

### Suggested Solder Pad Layout



### AVAILABLE OPTIONS

Frequency Range: 12 MHz to 67.0 MHz  
 Adjustment Tolerance: 10PPM ~ 50PPM  
 Load Capacity: Series or 9pF ~ 50pF  
 Shunt Capacity (C0): 4.5pF ~ 7pF (Typ.)  
 Dynamic Capacity (C1): 18pF ~ 20fF (Typ.)  
 Tape & Reel: 2,000pcs/Reel

### Frequency Stability vs Operating Temperature Range

Operating Temperature Range	Temperature Stability				
	+/- 5PPM	+/- 10PPM	+/- 15PPM	+/- 20PPM	+/- 50PPM
0 to +50	■	■	■	■	■
-10 to +60	■	■	■	■	■
-20 to +70	■	■	■	■	■
-30 to +80	■	■	■	■	■
-40 to +85	■	■	■	■	■

### Solder Conditions

Hand Solder	280°C ~ 350°C 3 Secs
Solder Dip	240°C 5 Secs Max
Reflow Soldering PreHeat	140°C ( 10°C) 100 Secs Max
Reflow	Over 200°C 25 Secs Max 230°C 5°C 5 Secs Max



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