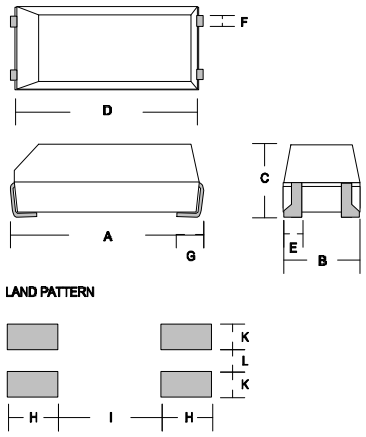
ECM Surface Mount Crystal

ECM 90SMX & 91SMX

- High Density Mounting
- Excellent Shock Characteristics
- Competitive Prices For Volume Users
- Industry Standard Package
- Tape & Reel or Bulk Packaging

Parameter	90 & 91SMX
Frequency Range	32.768kHz
Calibration Tolerance @25^{0}C	+/-20ppm +/-50ppm +/-100ppm
Temperature Tolerance	-0.4ppm/^{0}C^2
Operating Temperature	-40^{0}C to +85^{0}C
Storage Temp	-55^{0}C to +125^{0}C
Load Capacitance	6pf to ∞ (12.5pF Standard)
ESR	55KΩ max
Shunt Capacitance	1.0pF (Typ)
Drive Level	1.0µW
Shock Resistance	+/-5ppm max
Ageing	+/-5ppm /yr

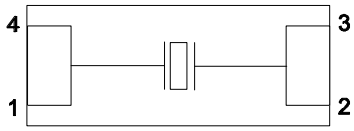


A	B	C	D	E	F	G
10.41	4.06	3.56	9.40	0.51	0.51	2.54

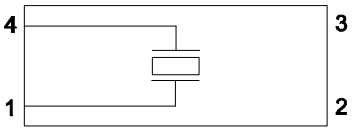
H	I	K	L
2.7	5.0	0.6	1.7

Dimensions in mm

INTERNAL CONNECTION



91SMX



90SMX

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Issue 1