YIC

Quartz Crystal Unit (MC306,SM38A,SM26B,SM26BSP)

MC306 : Tuning Fork SMD Quartz Crystal — 32.768KHz
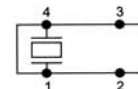
● SPECIFICATION

| Type	MC306	Conditions
Frequency Range	32.768KHz	
Load Capacitance	7pF or 12.5pF	
Drive Level	1μW Max.	
Frequency Tolerance	±20ppm	at 25℃
Series Resistance	50KΩ Max.	
Turnover Temperature	25℃±5℃	
Temperature Coefficient	$-0.035\pm0.01ppm/C^2$	
Operating Temperature Range	-40℃～+85℃	at 25℃
Storage Temperature Range	-55℃～+125℃	
Motional Capacitance	0.0028pF Typical	Depend on frequency
Shunt Capacitance	1.45pF Typ.	Depend on frequency
Capacitance Ratio (C0/C1)	500 Typical	Depend on frequency
Aging	±5ppm Max.	25℃±3℃
Quality Factor	50000 Typical	Depend on frequency
Insulation Resistance	500MΩ Min	DC100V±5V (Pin to Pin,Pin to case)

● DIMENSIONS (mm)
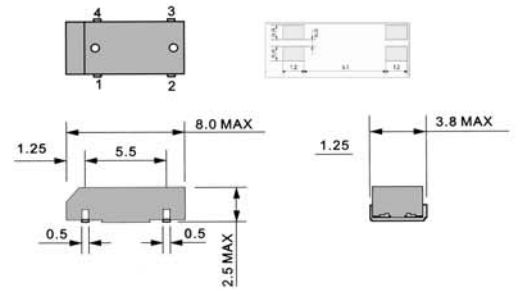
● INTERNAL CONNECTIONS

Pin#2 and #3 should be soldered tobeOPEN electrically to the PCB.

● Recommended Land Pattern
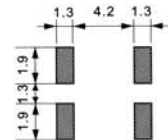
## SM38A,SM26B,SM26BSP Series: Tuning Fork SMD Type — 30.000 - 200.000KHz

● SPECIFICATION

Type	SM38A	SM26B	SM26BSP
Frequency Range	30 - 100KHz	30 - 200KHz	30 - 200KHz
Load Capacitance	7pF,12.5pF	7pF,12.5pF	7pF,12.5pF
Drive Level	1.0μW max	1.0μW max	1.0μW max
Frequency Tolerance	±20PPM Tpyical	±20PPM Tpyical	±20PPM Tpyical
Series Resistance	30KΩ max	40KΩ max	40KΩ max
Turnover Temperature	25±5℃	25±5℃	25±5℃
Temperature Coefficient	$-0.035\pm0.01PPM/C^2$	$-0.035\pm0.01PPM/C^2$	$-0.035\pm0.01PPM/C^2$
Operating Temperature Range	-10～+70℃	-10～+70℃	-10～+70℃
Storagr Temperature Range	-40～+85℃	-40～+85℃	-40～+85℃
Motional Capacitance	0.0035pF Typical	0.0028pF Typical	0.0028pF Typical
Shunt Capacitance	1.75pF Typical	1.45pF Typical	1.45pF Typical
Capacitance Ratio	500 Typical	500 Typical	500 Typical
Aging	±5ppm Max.	±5ppm Max.	±5ppm Max.
Quality Factor	60000 Typical	50000 Typical	50000 Typical
Insulation Resistance	500MΩ min	500MΩ min	500MΩ min
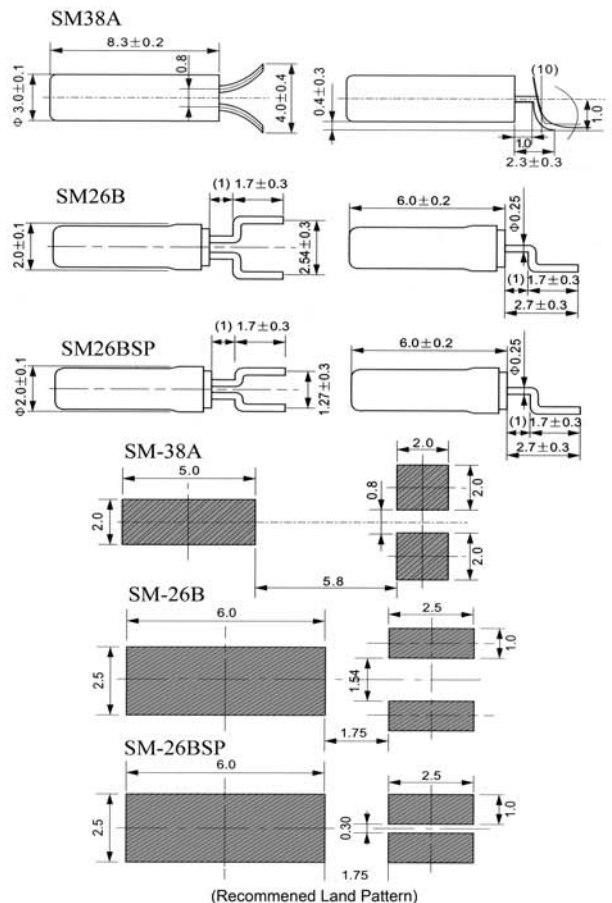
Soldering the body of the cylinder type crystal units with PCB must be avoided due to deteriorate the characteristics or damage the products.
Rubber adhesive is recommended.

● DIMENSIONS(mm)

SM38A

SM26B

SM26BSP

SM-38A

SM-26B

SM-26BSP

(Recommened Land Pattern)