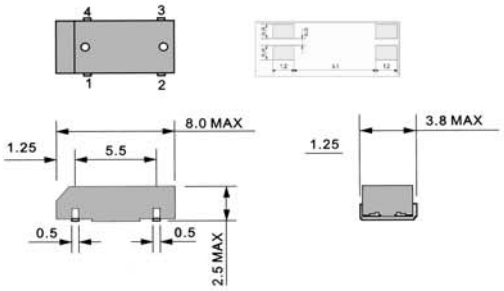
YIC Quartz Crystal Unit (MC306,SM38A,SM26B,SM26BSP)

MC306 : Tuning Fork SMD Quartz Crystal 32.768KHz

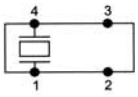
● SPECIFICATION

Type	MC306	Conditions
Frequency Range	32.768KHz	
Load Capacitance	7pF or 12.5pF	
Drive Level	1μ W Max.	
Frequency Tolerance	± 20ppm	at 25℃
Series Resistance	50KΩ Max.	
Turnover Temperature	25℃±5℃	
Temperature Coefficient	-0.035±0.01ppm/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	±5ppmMax.	25℃±3℃
Quality Factor	50000 Typical	Depend on frequency
Insulation Resistance	500MΩ Min	DC100V±5V (Pin to Pin,Pin to case)

● DIMENSIONS (mm)

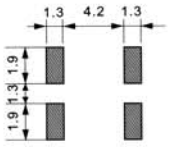


● INTERNAL CONNECTIONS



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

● Recommended Land Pattern



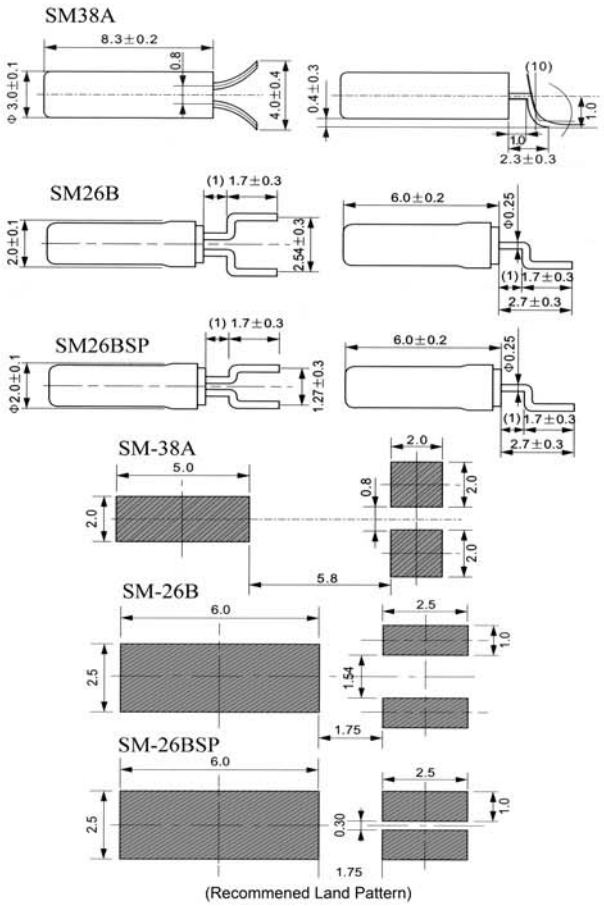
SM38A,SM26B,SM26BSP Series: Tuning Fork SMD Type 30.000 - 200.000KHz

● 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±0.01PPM/℃^{2}	-0.035±0.01PPM/℃^{2}	-0.035±0.01PPM/℃^{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	500 MΩ 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)



(Recommened Land Pattern)