

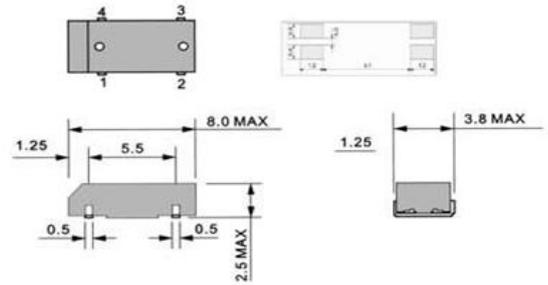
MC306 : Tuning Fork SMD Quartz Crystal

32.768KHz

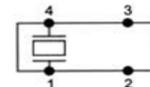
● SPECIFICATION

Type	MC306	Conditions
Frequency Range	32.768KHz	
Load Capacitance	7pF or 12.5pF	
Drive Level	1μ W Max.	
Frequency Tolerance	±20ppm	at 25°C
Series Resistance	50KΩ Max.	
Turnover Temperature	25°C±5°C	
Temperature Coefficient	-0.035±0.01ppm/C ²	
Operating Temperature Range	-40°C ~ +85°C	at 25°C
Storage Temperature Range	-55°C ~ +125°C	
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°C±3°C
Quality Factor	50000 Typical	Depend on frequency
Insulation Resistance	500MΩ Min	DC 100V±5V (Pin to Pin, Pin to case)

● DIMENSIONS (mm)

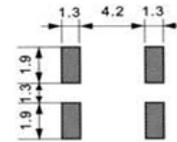


● INTERNAL CONNECTIONS



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

● Recommended Land Pattern



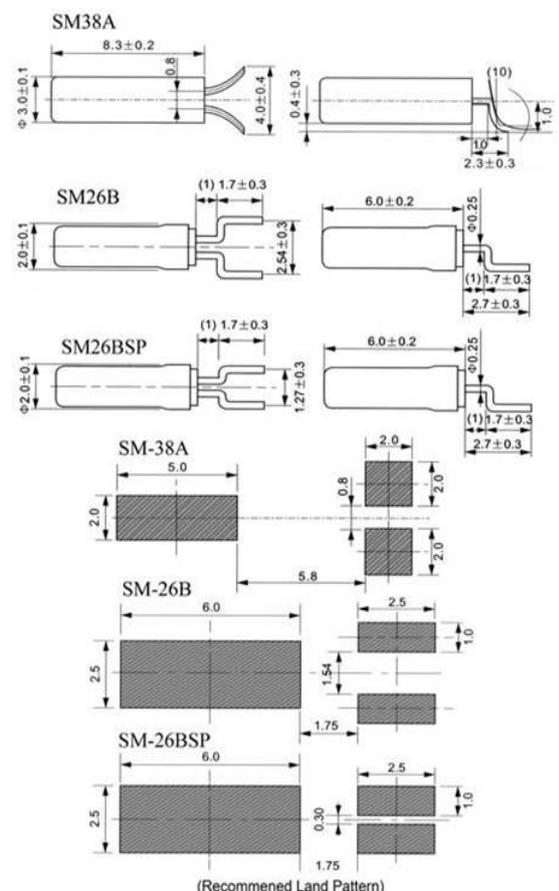
SM38A,SM26B,SM26BSP Series: Tuning Fork SMD Ttype

30.000 - 200.000KHz

● SPECIFICATION

Type	SM38A	SM26B	SM26BSP
Frequency Range	30-100KHz	30-200KHz	30-200KHz
Load Capacitance	7pF or 12.5pF	7pF or 12.5pF	7pF or 12.5pF
Drive Level	1μ W Max.	1μ W Max.	1μ W Max.
Frequency Tolerance	±20ppm Typical	±20ppm Typical	±20ppm Typical
Series Resistance	30KΩ Max.	50KΩ Max.	50KΩ Max.
Turnover Temperature	25°C±5°C	25°C±5°C	25°C±5°C
Temperature Coefficient	-0.035±0.01ppm/C ²	-0.035±0.01ppm/C ²	-0.035±0.01ppm/C ²
Operating Temperature Range	-10°C ~ +70°C	-10°C ~ +70°C	-10°C ~ +70°C
Storage Temperature Range	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C
Motional Capacitance	0.0035pF Typical	0.0028pF Typical	0.0028pF Typical
Shunt Capacitance	1.75pF Typ.	1.45pF Typ.	1.45pF Typ.
Capacitance Ratio (C0/C1)	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

● DIMENSIONS (mm)



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.

(Recommended Land Pattern)