



TC206B

**Features:**

- Surface mount pick & place
- High performance/cost ratio

Specifications		Symbol	TC-206B		Remarks
Frequency range		f	32.768kHz	32kHz ~ 200 kHz	
Frequency tolerance, Ta=25°C		f/f	±10ppm ~ ±100ppm		Others are offered
Load capacitance		C <sub>L</sub>	12.5pF (Std.)	6pF ~ 12.5pF (Std.)	Please specify
Temp. coefficient		A	-0.035 ± 0,01ppm/°C <sup>2</sup>		Max
Temperature range	Storage temperature	T <sub>STG</sub>	-40°C ~ +85°C		Max (25°C±5°C)
	Operating temperature	T <sub>OPR</sub>	-10°C - +60°C ~ -40°C - +85°C		Others are offered
Drive level	Maximum drive level	M <sub>DL</sub>	1μW		Max
	Recommended drive level	R <sub>DL</sub>	-		
Series resistance		R <sub>1</sub>	40k Ohm max		As per table (25°C ±3°C)
Shunt capacitance		C <sub>0</sub>	1.45pF	1.3pF	Typ
Insulation resistance		I <sub>R</sub>	500M Ohm		Min
Aging		f <sub>A</sub>	±5ppm/Year		Max

Resistance of series resonance (ESR)						
Frequency	Mode	Ohm max		Frequency	Mode	Ohm max
32kHz ≤ f < 40kHz	Fundamental	40k		60kHz ≤ f < 70kHz	Fundamental	25k
40kHz ≤ f < 60kHz	Fundamental	30k		70kHz ≤ f < 200kHz	Fundamental	22k

**Drawing**

**TC206B**

Do not solder can, please ask for processing guideline!

Recommended soldering pattern

Dimensions in mm

Order key						
Part	Frequency	Package	Frequency tolerance	Temperature range	Load capacitance	Option
Q	- 32.768000k	- TC206B	- 50	- B	- 12.5	- X
Q=Quartz	k=kHz	TC206B	±ppm (25°C)	A= 0°C ~ +70°C B= -10°C ~ +60°C C= -10°C ~ +70°C D= -20°C ~ +70°C E= -40°C ~ +85°C H= -20°C ~ +80°C I = -10°C ~ +50°C	pF SR=series	X=Special options