

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

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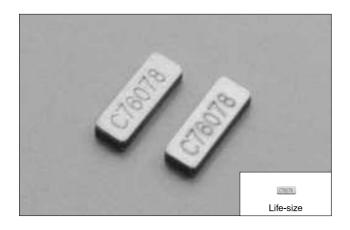


## TUNING FORK CRYSTAL UNIT (SMD · Ceramic Package)

**RoHS compliant / Pb free** 

**CM519** 

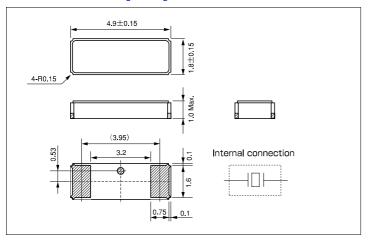
3000pcs/reel



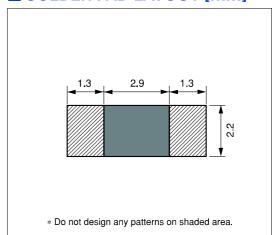
#### **FEATURES**

- Tuning fork crystal with ceramic packaged type.
- Small & thin packaging and light weight.
- Most appropriate for portable devices and mobile telecommunications devices.

### **■ DIMENSION [mm]**



### ■ SOLDER PAD LAYOUT [mm]



### **STANDARD SPECIFICATIONS**

Item	Model	CM519	Conditions
Nominal Frequency	fo	32.768kHz	
Frequency Tolerance	△ f/fo	$\pm$ 20ppm	at 25°C
Load capacitance	CL	9.0pF, 12.5pF	Need to specify your requirement
Operating Temperature Range	Topr	-40°C∼+85°C	
Storage Temperature Range	TSTR	−55°C~+125°C	
Turnover Temperature	Тм	25℃±5℃	
Temperature Coefficient	β	−0.034±0.006ppm/°C²	
Motional (series) resistance	R <sub>1</sub>	70K Ω Max.	at 25°C
Level of drive	DL	1 μW Max.	
Aging (first year)	△ f/fo	±3ppm Max.	25℃±3℃
Shunt capacitance	Co	1.35pF Typ.	