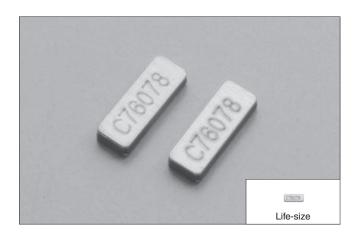


TUNING FORK CRYSTAL UNIT (SMD · Ceramic Package)

CM519

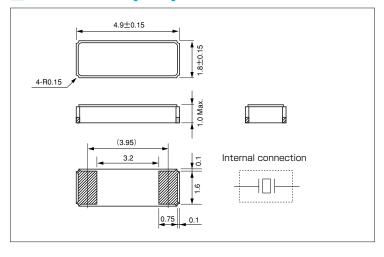
3000pcs/reel



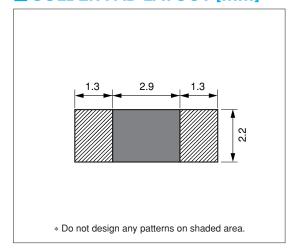
■ FEATURES

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

■ DIMENSION [mm]



■ SOLDER PAD LAYOUT [mm]



STANDARD SPECIFICATIONS

Item	Model	CM519	Conditions
Nominal Frequency	fo	32.768kHz	
Frequency Tolerance	△ f/fo	±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℃	See figure 2 in P4
Temperature Coefficient	β	−0.034±0.006ppm/°C²	
Motional (series) resistance	R ₁	70K Ω Max.	at 25°C
Level of drive	DL	1 μW Max.	
Aging (first year)	△ f/fo	±3ppm Max.	25℃±3℃
Quality Factor	Q	57000 Typ.	
Shunt capacitance	Co	1.35pF Typ.	