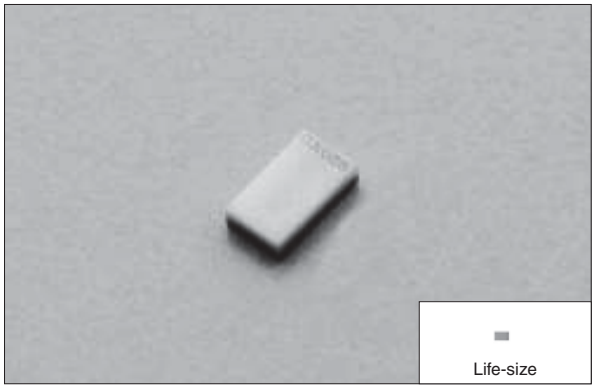
TUNING FORK CRYSTAL UNIT (SMD • Ceramic Package)

CITIZEN Micro HumanTech

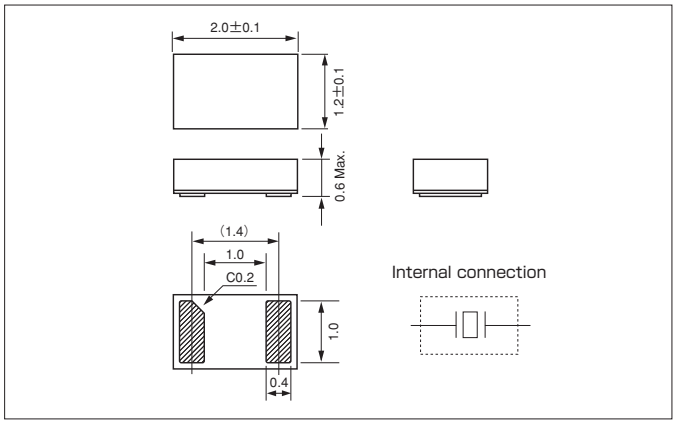
RoHS compliant / Pb free **CM212** **3000pcs/reel**



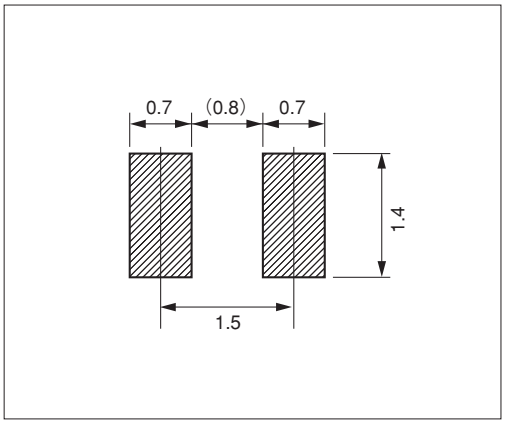
■ FEATURES

- Tuning fork crystal with in-house ceramic.
- High-density SMD type
  Ultra-light weight with ultra-miniature packaging.
  High-stability assured with tight vacuum sealing.
- Most appropriate for portable devices and mobile telecommunications devices.

■ DIMENSION [mm]



■ SOLDER PAD LAYOUT [mm]



■ STANDARD SPECIFICATIONS

Item / Model		CM212	Conditions
Nominal Frequency	f_0	32.768kHz	
Frequency Tolerance	$\triangle f/f_0$	±20ppm	at 25°C
Load capacitance	C_L	12.5pF	Need to specify your requirement
Operating Temperature Range	T_{OPR}	−40°C～+85°C	
Storage Temperature Range	T_{STR}	−55°C～+125°C	
Turnover Temperature	T_M	25°C±5°C	
Temperature Coefficient	β	−0.04ppm/°C² Max.	
Motional (series) resistance	R_1	90KΩMax.	at 25°C
Level of drive	D_L	0.5μW Max.	
Aging (first year)	$\triangle f/f_0$	±3ppm Max.	25°C±3°C
Shunt capacitance	C_0	1.7pF Typ.	

http://cfm.citizen.co.jp/english/product/pr02.html