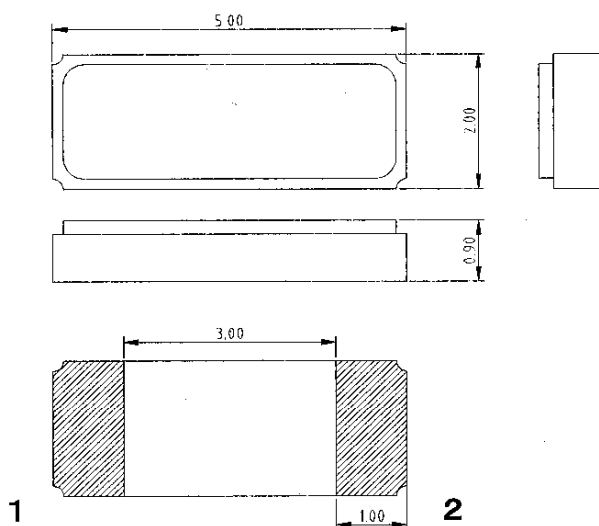
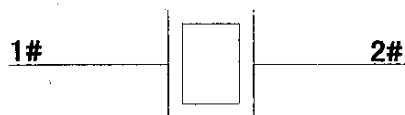


EPSON**THIN CERAMIC TYPE LOW/MEDIUM-FREQUENCY CRYSTAL UNIT****Preliminary****FC - 255**

- Possible to reflow soldering and high density mounting type SMD
- Excellent environmental capability
- Using ceramic material allows 0.9mm thickness

■ Specifications(characteristics)

Item	Sym bol	Specifications	Remarks
Nominal frequency	fo	32.768KHz	
Storage temperature	TSTG	-55°C ~ +125°C	
Operating temperature	TOPR	-40°C ~ +85°C	
Maximum drive level	GL	1.0 μ W MAX.	
Recommended drive level	DL	0.1 μ W	
Frequency tolerance(std.)	$\Delta f / f$	± 20 ppm , ± 50 ppm	Ta = 25°C , DL=0.1 μ W
Peak temperature	θT	25°C \pm 5°C	
Temperature coefficient	a	-0.04 ppm /°C ² MAX.	
Load capacitance	CL	6pF ~ ∞	Please specify
Series resistance	R ₁	60 K Ω MAX.	
Insulation resistance	IR	500M Ω MIN.	
Aging	fa	± 3 ppm / Y MAX.	Ta = 25°C \pm 3°C , first year
Shock resistance	S.R.	± 5 ppm MAX.	Three drops on a hard board from 75 cm or excitation test with 3000G x 0.3ms x 1/2 sine wave

■ External Dimensions(unit=mm)**■ internal****■ Recommended Soldering pattern**