

THIN CERAMIC TYPE LOW/MEDIUM-FREQUENCY CRYSTAL UNIT

FC-145

Product number Q13FC145XXXXX00

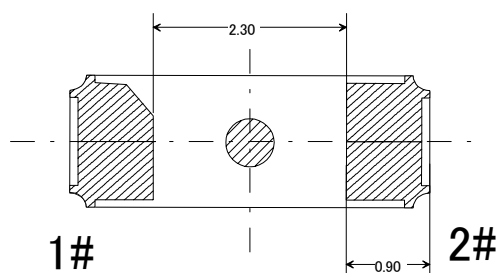
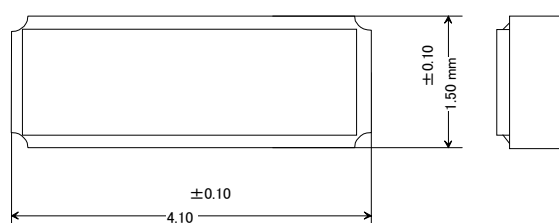
- Possible to reflow soldering and high density mounting type SMD
- Excellent environmental capability
- Using ceramic material allows 0.9mm thickness



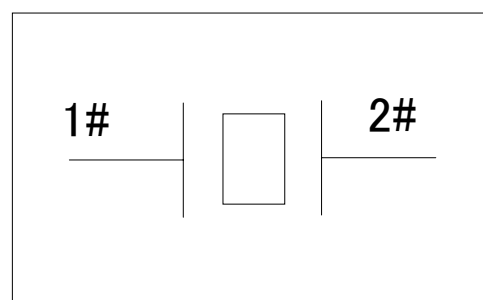
■ Specifications(characteristics)

Item	Symbol	Specifications	Remarks
Nominal frequency	f ₀	32.768KHz	
Storage temperature	T _{STG}	-55°C ~ +125°C	
Operating temperature	T _{OPR}	-40°C ~ +85°C	
Maximum drive level	GL	0.5μW MAX.	
Recommended drive level	DL	0.1μW	
Frequency tolerance(std.)	Δf / f	±20×10 ⁻⁶	T _a = 25°C , DL=0.1μW
Peak temperature	θT	25°C ± 5°C	
Temperature coefficient	a	-0.04×10 ⁻⁶ /°C ² MAX.	
Load capacitance	CL	9.0pF/12.5pF	Please specify
Series resistance	R ₁	70 KΩ MAX.	
Insulation resistance	IR	500MΩ MIN.	
Aging	fa	±3 ×10 ⁻⁶ /Y MAX.	T _a = 25°C± 3°C , first year

■ External Dimensions (unit=mm)



■ Internal Connection



■ Recommended Soldering Pattern

