

## MHz RANGE CRYSTAL UNIT

### ULTRA MINIATURE SIZE LOW PROFILE SMD

# FA-128

- Nominal frequency range : 24 MHz to 54 MHz
- Thickness : 0.5mm Max.
- Overtone order : Fundamental
- Applications : Mobile phone, Bluetooth, W-LAN  
ISM band radio, Clock for MPU



Actual size



### Specifications (characteristics)

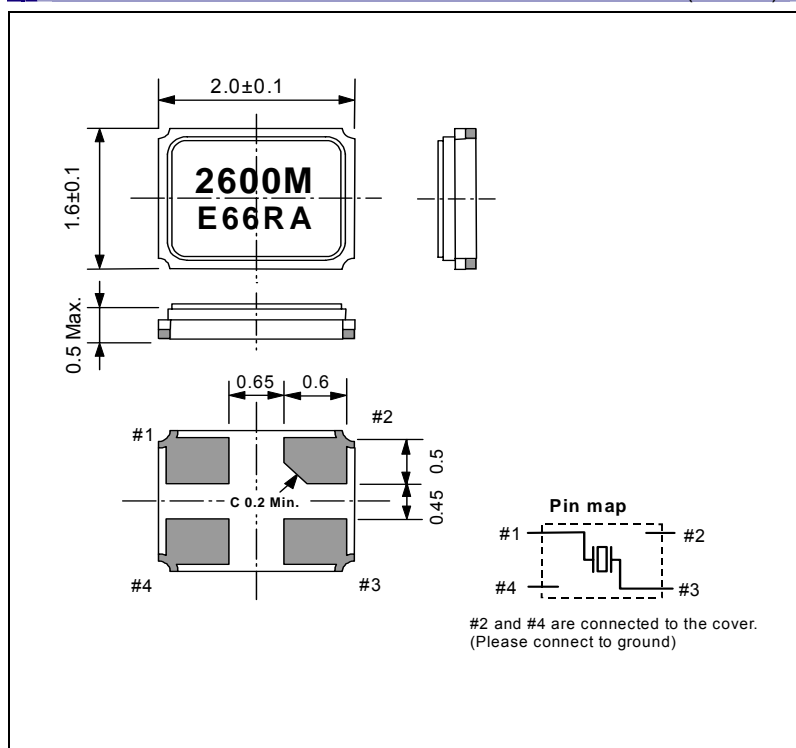
Item	Symbol	Specifications		Remarks
		For RF Reference	For Clock	
Nominal frequency range	f	24.000 MHz to 54.000 MHz		Fundamental Please contact us for inquiries regarding the available frequencies.
Storage temperature range	T_stg	-40 °C to +125 °C		Store as bare product after unpacking.
Operating temperature range	T_use	-40 °C to +85 °C		
Level of drive	DL	50 μW Max.	100 μW Max.	
Frequency tolerance (standard)	f_tol	$\pm 10 \times 10^{-6}$	$\pm 30 \times 10^{-6}$	+25 °C For the out of standard specifications, please contact us for inquiries.
Frequency versus temperature characteristics (standard)	f_tem	$\pm 10 \times 10^{-6}$	$\pm 30 \times 10^{-6}$	-20 °C to +75 °C For the out of standard specifications, please contact us for inquiries.
Load capacitance	CL	8 pF to ∞		Please specify.
Motional resistance (ESR)	R <sub>1</sub>	As per below table		-20 °C to +75 °C
Frequency aging	f_age	$\pm 1 \times 10^{-6}$ / year Max.	$\pm 5 \times 10^{-6}$ / year Max.	+25 °C, First year

### Motional resistance (ESR)

Frequency	Motional resistance
24.0 MHz ≤ f < 26.0 MHz	80 Ω Max.
26.0 MHz ≤ f ≤ 54.0 MHz	60 Ω Max.

### External dimensions

(Unit:mm)



### Footprint (Recommended)

(Unit:mm)

