



KHz RANGE CRYSTAL UNIT LOW PROFILE SMD

FC-145/FC-255

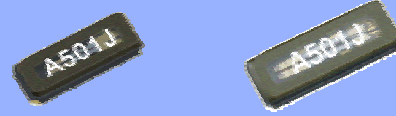
- Frequency range : 32.768 kHz (32 kHz to 100 kHz)
- External dimensions : 4.1 × 1.5 × 0.8 t (mm) ...FC-145
: 4.9 × 1.8 × 0.8 t (mm) ...FC-255
- Overtone order : Fundamental
- Applications : Small communications devices



Product Number (please contact us)

FC-145 : Q13FC1450xxxx00

FC-255 : Q1xFC2550xxxx00



Actual size

FC-145

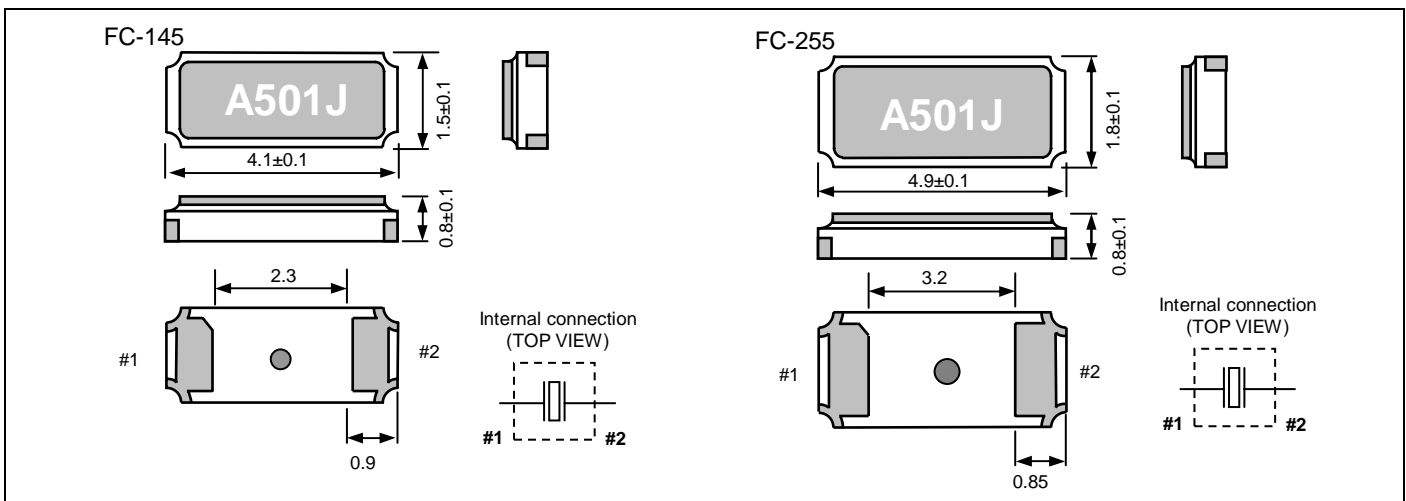
FC-255

Specifications (characteristics)

Item	Symbol	Specifications			Remarks
		FC-145	FC-255	FC-255	
Nominal frequency range	f_nom	32.768 kHz		32 kHz to 100 kHz	Please contact us for inquiries regarding available frequencies.
Temperature range	Storage temperature T_stg	-55 °C to +125 °C			Store as bare product after unpacking
	Operating temperature T_use	-40 °C to +85 °C			
Level of drive	DL	0.5 μW Max.			
Frequency tolerance (standard)	f_tol	±20 × 10 ⁻⁶			+25 °C, DL=0.1 μW Please ask for tighter tolerance
Turnover temperature	Ti	+25 °C ±5 °C			
Parabolic coefficient	B	-0.04 × 10 ⁻⁶ / °C ² Max.			
Load capacitance	CL	7 pF, 9 pF, 12.5 pF	7 pF, 12.5 pF	7 pF, 12.5 pF	Please specify
Motional resistance (ESR)	R ₁	70 kΩ Max.	65 kΩ Max.	70 kΩ to 30 kΩ	
Motional capacitance	C ₁	3.4 fF Typ.	2.0 fF Typ.	2.3 fF to 0.6 fF	
Shunt capacitance	C ₀	1.0 pF Typ.	1.3 pF Typ.	1.7 pF to 0.9 pF	
Frequency aging	f_age	±3 × 10 ⁻⁶ / year Max.			+25 °C, First year

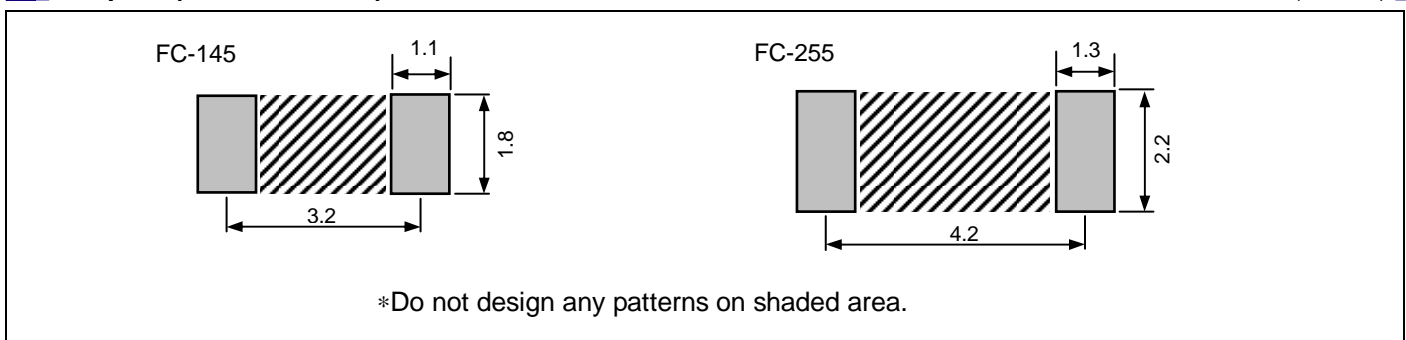
External dimensions

(Unit:mm)



Footprint (Recommended)

(Unit:mm)



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Epson:

[FC-255 32.7680K-A](#) [FC-255 32.7680K-A0](#) [FC-255 32.7680K-AG3](#) [FC-255 32.7680K-A3](#)