Crystal unit

kHz RANGE CRYSTAL UNIT

FC-135R **NEW** FC-135/FC-255

 Frequency range : 32.768 kHz (32 kHz to 100 kHz) •External dimensions : 3.2 x 1.5 x 0.80 mm ···FC-135R/FC-135

: $4.9 \times 1.8 \times 0.80 \text{ mm} \cdot \cdot \cdot \text{FC-}255$

: Fundamental Overtone order

 Applications Small communications devices



Product Number (please contact us) FC-135R : X1A000141xxxx00 FC-135 FC-255 : Q1xFC1350xxxx00 : Q1xFC2550xxxx00





Actual size

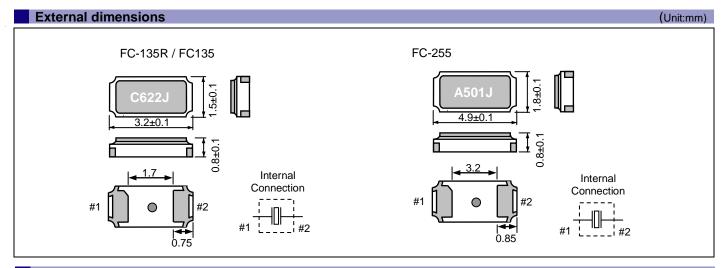
FC-135R/FC-135	FC-255
Atota	A501J1

Specifications (characteristics)

ltem	Symbol	Specifications				Conditions / Remarks	
item		FC-135R	FC-	135	FC-255		Conditions / Remarks
Nominal frequency range	f_nom	32.768 kHz	32.768 kHz	32 kHz to 77.5 kHz	32.768 kHz	32 kHz to 100 kHz	Please contact us about available frequencies.
Storage temperature	T_stg	-55 °C to +125 °C					Storage as single product.
Operating temperature	T_use	-40 °C to +85 °C					
Level of drive	DL	0.5 μW (1.0 μW Max.)			0.5 μW Max.		Please contact us if you require 1.0µW 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	В	-0.04 × 10 ⁻⁶ / °C ² Max.					
Load capacitance	CL	7 pF, 9 pF, 12.5 pF			7 pF, 12.5 pF		Please specify
Motional resistance (ESR)	R1	50 kΩ Max.	70 kΩ Max.	70 kΩ to 45 kΩ	65 kΩ Max.	70 kΩ to 30 kΩ	
Motional capacitance	C1	3.4 fF Typ.	3.4 fF Typ.	3.7 fF to 1.6 fF	2.0 fF Typ.	2.3 fF to 0.6 fF	
Shunt capacitance	C0	1.1 pF Typ.	1.0 pF Typ.	1.3 pF to 0.5 pF	1.3 pF Typ.	1.7 pF to 0.9 pF	
Frequency aging	f_age	$\pm 3 \times 10^{-6}$ / year Max.					+25 °C, First year

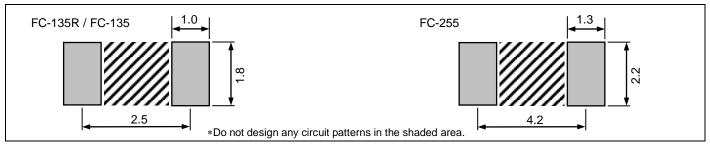
Product name FC-135R 32.768000kHz 12.5 +20.0-20.0 (Standard form) 4

④Frequency tolerance(x 10⁻⁶, +25 °C) ①Model @Frequency ③Load capacitance(pF)



Footprint (Recommended)

(Unit:mm)



Mouser Electronics

Authorized Distributor

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

Epson:

FC-135 32.7680KA-A FC-135 32.7680KA-A3 FC-135 32.7680KA-AC0 FC-135 32.7680KA-AC3 FC-135 32.7680KA-AC3 FC-135 32.7680KA-AC0 FC-135 AC0 FC-1