

KHz RANGE CRYSTAL UNIT

勝特力材料 886-3-5753170  
 胜特力电子(上海) 86-21-34970699  
 胜特力电子(深圳) 86-755-83298787  
 Http://www.100y.com.tw

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

FC-135R/FC-135

- 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
- Overtone order : Fundamental
- Applications : Small communications devices

Actual size

FC-135R/FC-135

A392



Specifications (characteristics)

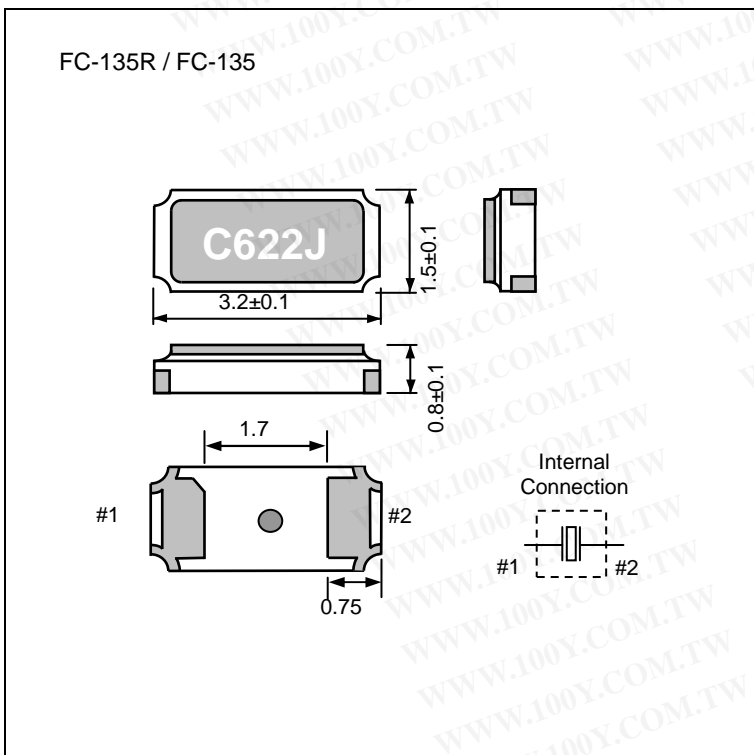
Item	Symbol	Specifications			Conditions / Remarks
		FC-135R	FC-135		
Nominal frequency range	f_nom	32.768 kHz	32.768 kHz	32 kHz to 77.5 kHz	Please contact us about available frequencies.
Storage temperature	T_stg	-55 °C to +125 °C			Storage as single product.
Operating temperature	T_use	-40 °C to +85 °C (+105 °C)			Please contact us about +85 °C < T_use
Level of drive	DL	0.5 μW (1.0 μW Max.)			Please contact us if you require 1.0μW Max.
Frequency tolerance (standard)	f_tol	±20 × 10 <sup>-6</sup>			+25 °C, DL=0.1 μW Please ask for tighter tolerance
Turnover temperature	Ti	+25 °C ±5 °C			
Parabolic coefficient	B	-0.04 × 10 <sup>-6</sup> / °C <sup>2</sup> Max.			
Load capacitance	CL	7 pF, 9 pF, 12.5 pF			Please specify
Motional resistance (ESR)	R1	50 kΩ Max.	70 kΩ Max.	70 kΩ to 45 kΩ	
Motional capacitance	C1	3.4 fF Typ.	3.4 fF Typ.	3.7 fF to 1.6 fF	
Shunt capacitance	C0	1.1 pF Typ.	1.0 pF Typ.	1.3 pF to 0.5 pF	
Frequency aging	f_age	±3 × 10 <sup>-6</sup> / year Max.			+25 °C, First year

Product name FC-135R 32.768000kHz 12.5 +20.0-20.0  
 (Standard form) ① ② ③ ④

①Model ②Frequency ③Load capacitance(pF) ④Frequency tolerance(x 10<sup>-6</sup>, +25 °C)

External dimensions

(Unit:mm)



Footprint (Recommended)

(Unit:mm)

