FC-135

SEIKO EPSON CORPORATION

Product name
Product Number / Ordering code

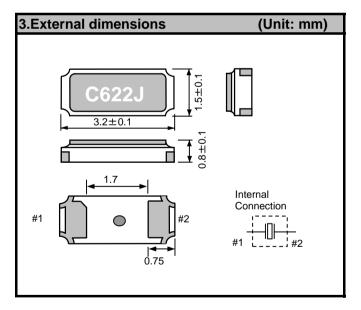
FC-135 32.768000 kHz 12.5 +20.0-20.0 Q13FC13500004xx

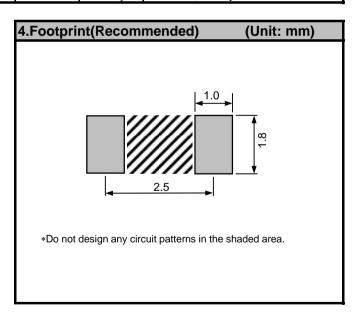
Please refer to the 5.Packing information about xx (last 2 digits)

Complies with EU RoHS directive Reference weight Typ. 11 mg

1.Absolute maximum ratings						
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks
Storage temperature	T_stg	-55	-	125	°C	Storage as single product
Maximum drive level	GL	-	0.5	-	μW	

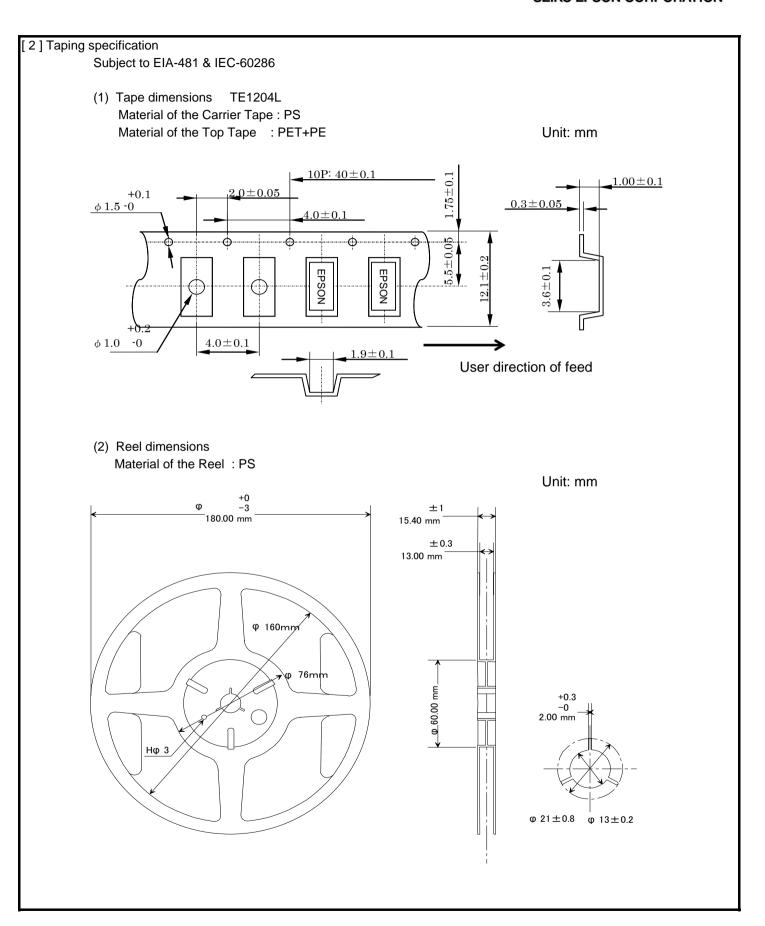
2.Specificatoins(characteri	istics)					
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks
Nominal frequency	f_nom	-	32.768	-	kHz	
Operating temperature	T_use	-40	-	85	°C	
Level of drive	DL	-	0.1	-	μW	
Frequency tolerance	f_tol	-20.0	-	+20.0	x 10 ⁻⁶	+25°C DL=0.1μW
Turnover temperature	Ti	20	25	30	°C	
Parabolic coefficient	В	-	-	-0.04	x 10 ⁻⁶ /°C ²	
Load capacitance	CL	-	12.5	-	pF	
Motional resistance (ESR)	R1	-	55	70	kΩ	
Motional capacitance	C1	-	3.4	-	fF	
Shunt capacitance	C0	-	1	-	pF	
Motional inductance	L1	-	7.1	-	kH	
Frequency aging	f_age	-3	-	3	x10 ⁻⁶ /yea	@+25°C, First year





	informati					
[1]Product]Product number last 2 digits code (xx) description		The recommended code is "00"			
	Q13FC13	500004xx				
	Code	Condition	Code	Condition		
	01	Any Q'ty vinyl bag(Tape cut)	14	1000pcs / Reel		
	11	Any Q'ty / Reel	15	2000pcs / Reel		
	12	250pcs / Reel	00	3000pcs / Reel		
	13	500pcs / Reel				

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Reflow profile

Pre Heating Temperature

 $Tp1 \sim Tp2 = + 170 °C$

Heating Temperature

TMIt = + 220 °C

Peek Temperature

TMax. = + 260 °C

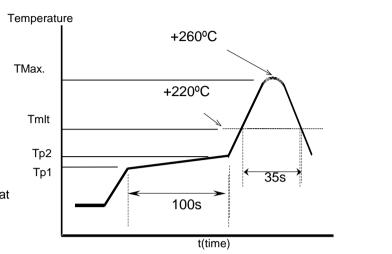
Point of measuring

In case of Solder ability

Terminal.

In case of Resistance to soldering heat

Surface.



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