kHz Range Crystal unit

FC-135R

Product name

FC-135R 32.768000 kHz 12.5 +10.0-10.0

Product Number / Ordering code

X1A0001410005xx

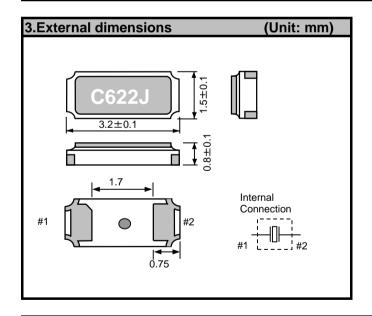
Disease Plants

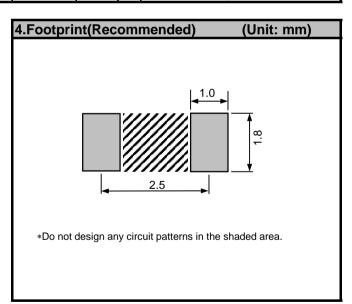
Please refer to the 5.Packing information about xx (last 2 digits)

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(characteristics)						
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks
Nominal frequency	f_nom	-	32.768	-	kHz	
Operating temperature	T_use	-40	-	+85	۰C	
Level of drive	DL	-	0.1	-	μW	
Frequency tolerance	f_tol	-10	-	+10	x 10 ⁻⁶	+25°C DL=0.1µW
Turnover temperature	Ti	+20	+25	+30	۰C	
Parabolic coefficient	В	-	-	-0.04	x 10 ⁻⁶ /°C ²	
Load capacitance	CL	-	12.5	-	pF	
Motional resistance (ESR)	R1	-	35	50	kΩ	
Motional capacitance	C1	-	3.4	-	fF	
Shunt capacitance	C0	-	1.0	-	pF	
Motional inductance	L1	-	7.0	-	kH	
Frequency aging	f_age	-3	-	+3	x10 ⁻⁶ /yea	@+25°C, First year





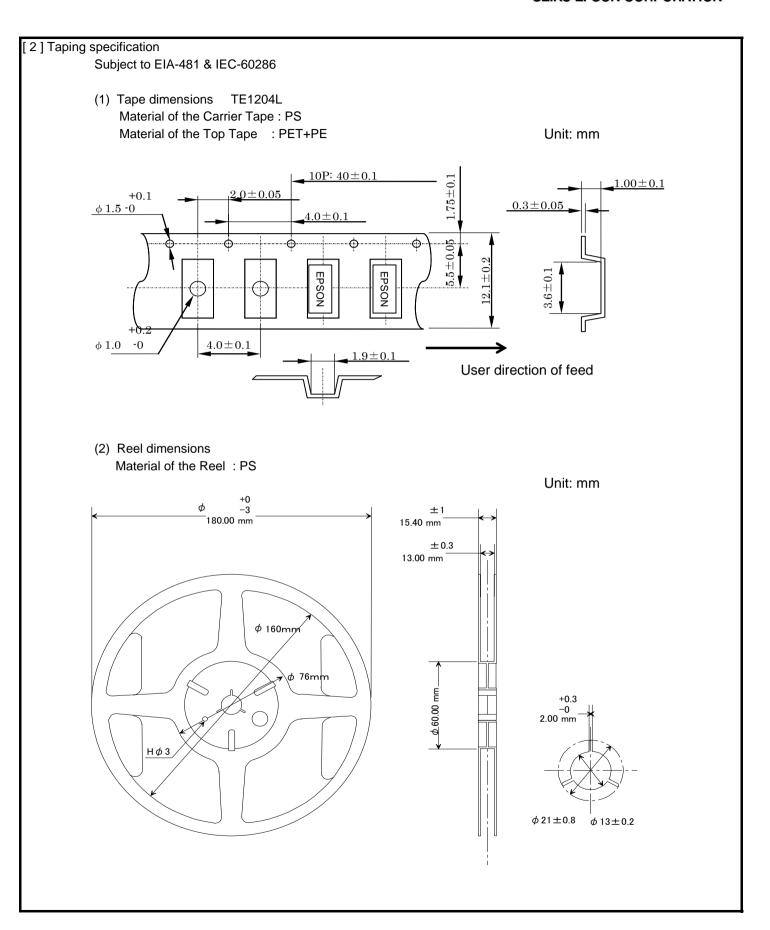
5.Packing information[1]Product number last 2 digits code (xx) description

The recommended code is "00"

X1A00014	10005xx
<u> </u>	

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		

SEIKO EPSON CORPORATION



Reflow profile

Pre Heating Temperature

Tp1 ~ Tp2 = + 170 °C

Heating Temperature

TMIt = + 220 °C

Peek Temperature

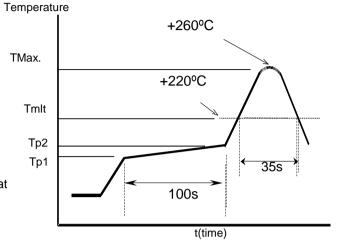
TMax. = + 260 °C

Point of measuring

In case of Solder ability

Terminal.

In case of Resistance to soldering heat Surface.



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