kHz Range Crystal unit

Product name Product Number / Ordering code

FC-135R

SEIKO EPSON CORPORATION

FC-135R 32.768000 kHz 9.0 +20.0-20.0 X1A0001410002xx

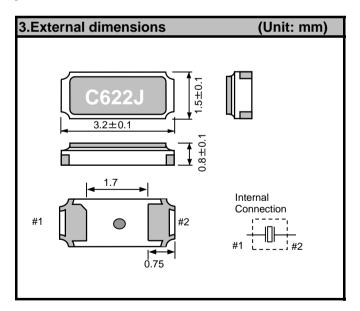
Please refer to the 5.Packing information about xx (last 2 digits)

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	

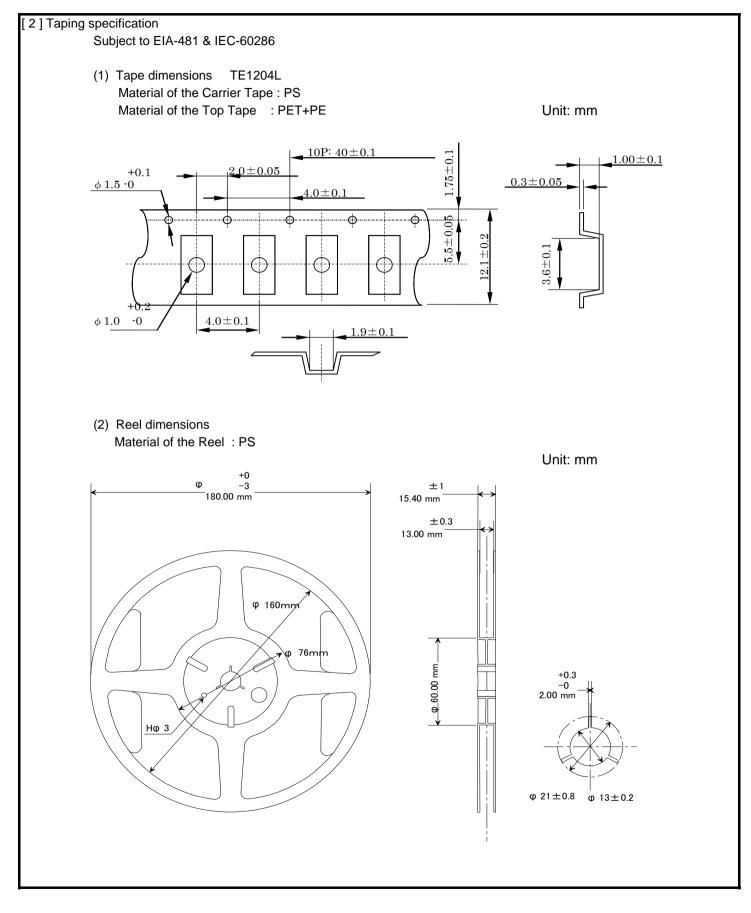
2.Specificatoins(characterist	tics)					
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks
Nominal frequency	f_nom	-	32.768	-	kHz	
Operating temperature	T_use	-40	-	85	°C	
Level of drive	DL	-	-	0.5	μW	
Frequency tolerance	f_tol	-20.0	-	+20.0	x 10⁻ ⁶	+25°C DL=0.1µW
Turnover temperature	Ti	20	25	30	°C	
Parabolic coefficient	В	-	-	-0.04	x 10 ⁻⁶ /°C ²	
Load capacitance	CL	-	9.0	-	pF	
Motional resistance (ESR)	R1	-	35	50	kΩ	
Motional capacitance	C1	-	3.4	-	fF	
Shunt capacitance	C0	-	1.1	-	pF	
Motional inductance	L1	-	7	-	kH	
Frequency aging	f_age	-3	-	3	x10 ⁻⁶ /yea	@+25°C, First year



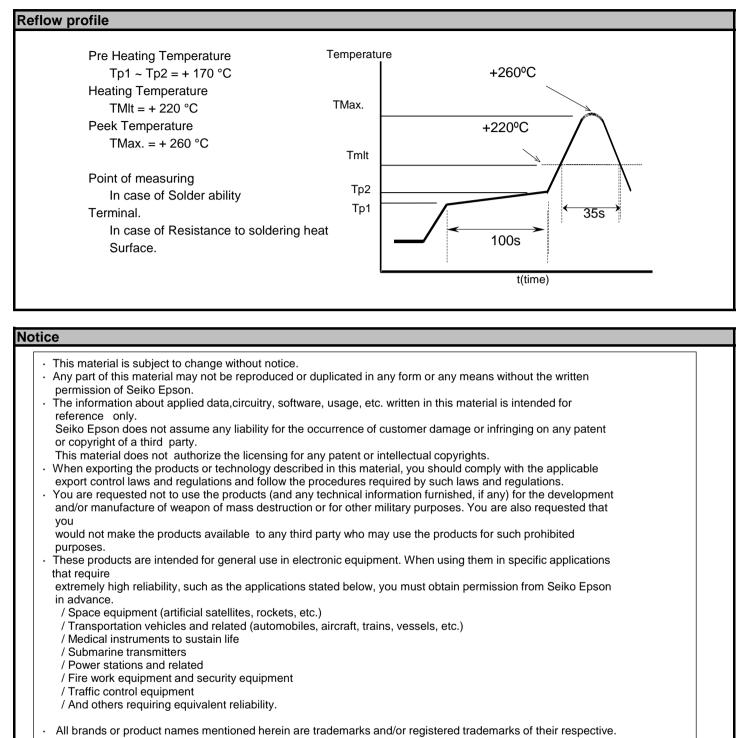
4.Footprint(Recommended) (Unit: mm)
*Do not design any circuit patterns in the shaded area.

[1]Product r	1]Product number last 2 digits code (xx) description		The recommended code is "00"		
	X1A00014	10002xx			
	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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Contact us

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