kHz Range Crystal unit

FC-12M

SEIKO EPSON CORPORATION

Product name Product Number / Ordering code

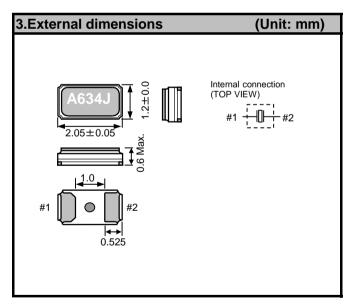
FC-12M 32.768000 kHz 12.5 +10.0-10.0 X1A0000610014xx

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

Pb free / Complies with EU RoHS directive Reference weight Typ. 5 mg

i tereren eo gint i ypi e 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	

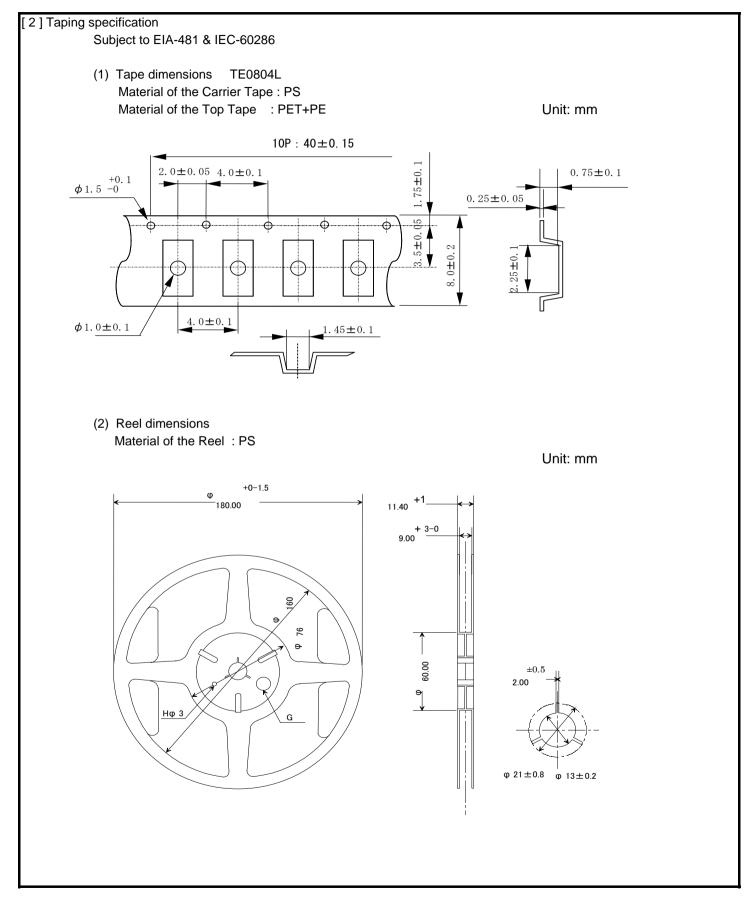
2.Specificatoins(characteristics)						
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks
Nominal frequency	f_nom	-	32.768	-	kHz	
Operating temperature	T_use	-40	-	85	٥C	
Level of drive	DL	-	-	0.5	μW	
Frequency tolerance	f_tol	-10.0	-	+10.0	x 10⁻ ⁶	+25°C DL=0.1µW
Turnover temperature	Ti	20	25	30	٥C	
Parabolic coefficient	В	-	-	-0.04	x 10 ⁻⁶ /°C ²	
Load capacitance	CL	-	12.5	-	pF	
Motional resistance (ESR)	R1	-	65	90	kΩ	
Motional capacitance	C1	-	6.4	-	fF	
Shunt capacitance	C0	-	1.3	-	pF	
Motional inductance	L1	-	3.7	-	kH	
Frequency aging	f_age	-3	-	3	x10 ⁻⁶ /yea	@+25°C, First year



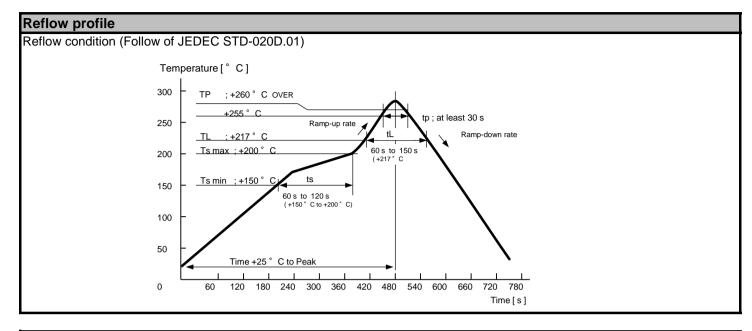
4.Footprint(Recommer	ided)	(Unit: mm)
	o not design any cuit patterns in ti	/ he

5.Packing	informati	on				
1]Product number last 2 digits code (xx) description			The recommended code is "18"			
	X1A00006	10014xx				
	Code	Condition	Code	Condition		
	01	Any Q'ty vinyl bag(Tape cut)	00	3000pcs / Reel		
	11	Any Q'ty / Reel	18	5000pcs / Reel		
	12	250pcs / Reel				
	14	1000pcs / Reel				

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