kHz Range Crystal unit

MC-146

SEIKO EPSON CORPORATION

Product name Product Number / Ordering code

MC-146 32.768000 kHz 12.5 +10.0-10.0 Q13MC14620017xx

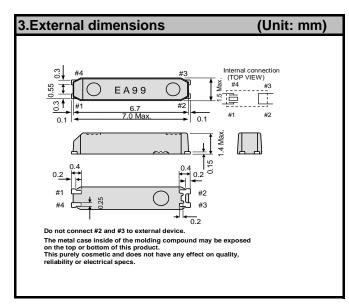
Please refer to the 5.Packing information about xx (last 2 digits)

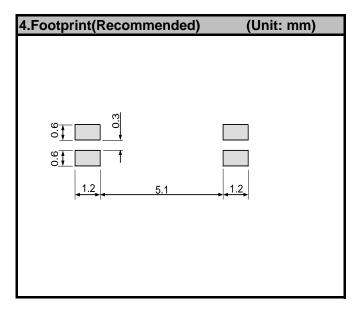
Complies with EU RoHS directive

Reference weight Typ. 29 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	-	-	1.0	μW	

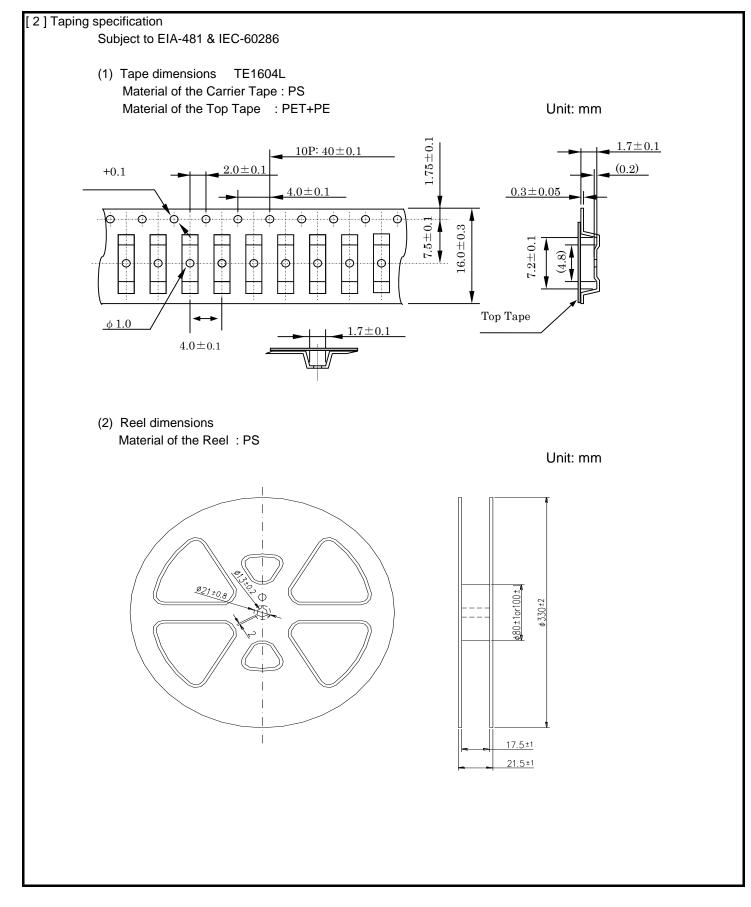
2.Specificatoins(characteri	istics)					
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks
Nominal frequency	f_nom	-	32.768	-	kHz	
Operating temperature	T_use	-40	-	+85	°C	
Level of drive	DL	-	-	1.0	μW	
Frequency tolerance	f_tol	-10.0	-	+10.0	x 10 ⁻⁶	+25ºC DL=0.1µW
Turnover temperature	Ti	+20	+25	+30	٥C	
Parabolic coefficient	В	-	-	-0.04	x 10 ⁻⁶ /°C ²	
Load capacitance	CL	-	12.5	-	pF	
Motional resistance (ESR)	R1	-	45	65	kΩ	
Motional capacitance	C1	-	1.9	-	fF	
Shunt capacitance	C0	-	0.8	-	pF	
Motional inductance	L1	-	11.7	-	kH	
Frequency aging	f_age	-3	-	+3.0	x10 ⁻⁶ /yea	@+25°C, First year



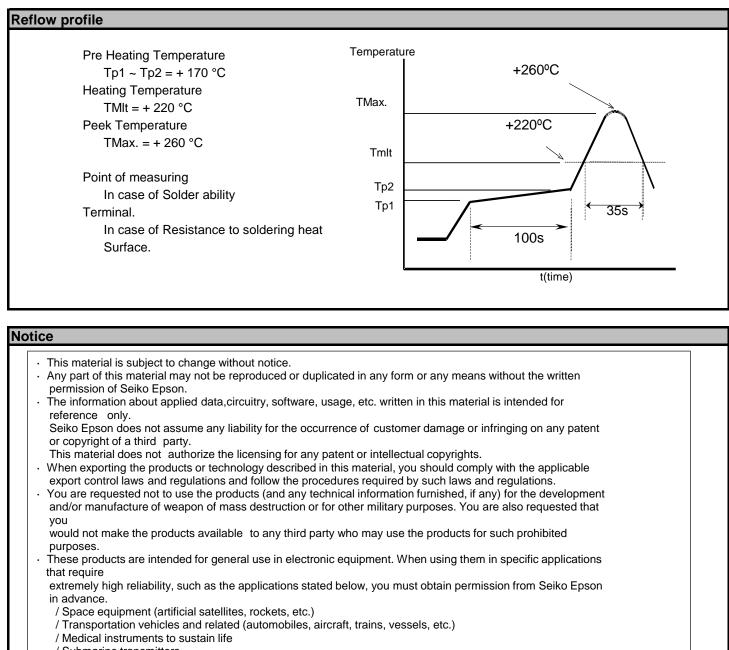


5.Packing	information	on			
1]Product number last 2 digits code (xx) description			The recommended code is "0X"		
	Q13MC14	620017xx			_
	Code	Condition	Code	Condition	
	01	Any Q'ty vinyl bag(Tape cut)	14	1000pcs / Reel	
	11	Any Q'ty / Reel	15	2000pcs / Reel	
	12	250pcs / Reel	00	3000pcs / Reel	
	13	500pcs / Reel	0X	9000pcs / Reel	

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- / Submarine transmitters
- / Power stations and related
- / Fire work equipment and security equipment
- / Traffic control equipment
- / And others requiring equivalent reliability.

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