kHz Range Crystal unit

MC-146

SEIKO EPSON CORPORATION

Product name Product Number / Ordering code

MC-146 32.768000 kHz 6.0 +20.0-20.0 Q13MC14620006xx

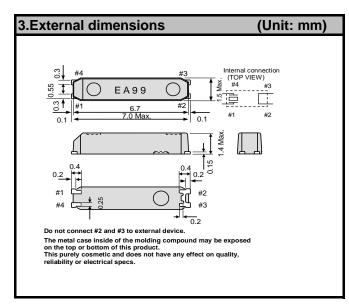
Please refer to the 5.Packing information about xx (last 2 digits)

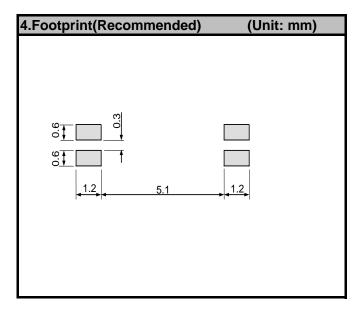
Complies with EU RoHS directive

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	

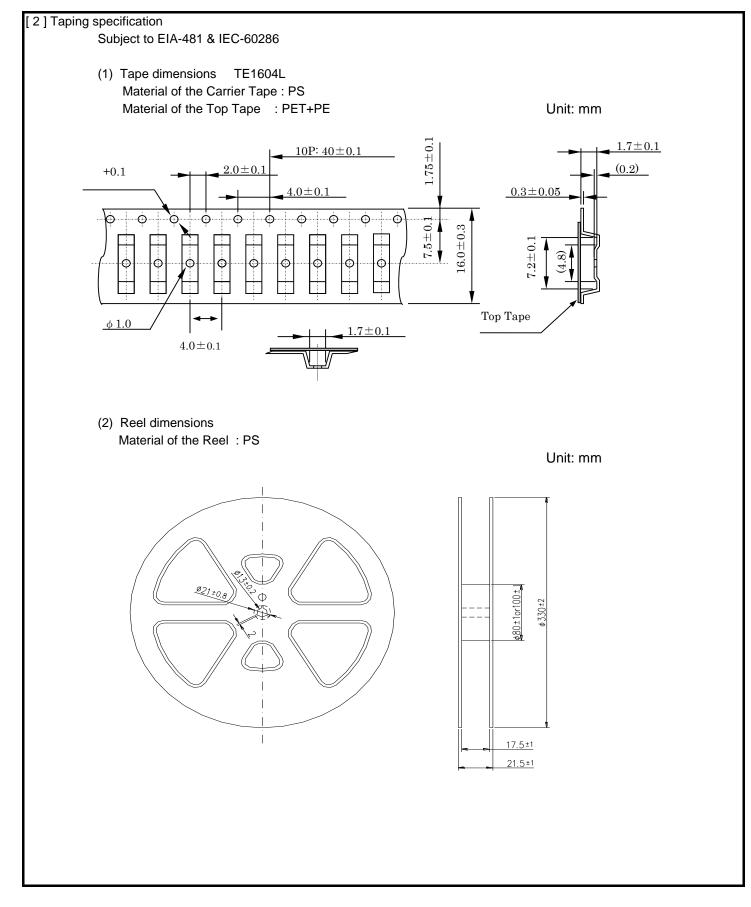
2.Specificatoins(characteristics)							
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks	
Nominal frequency	f_nom	-	32.768	-	kHz		
Operating temperature	T_use	-40	-	+85	°C		
Level of drive	DL	-	-	1.0	μW		
Frequency tolerance	f_tol	-20.0	-	+20.0	x 10⁻ ⁶	+25ºC DL=0.1µW	
Turnover temperature	Ti	+20	+25	+30	٥C		
Parabolic coefficient	В	-	-	-0.04	x 10 ⁻⁶ /°C ²		
Load capacitance	CL	-	6.0	-	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	



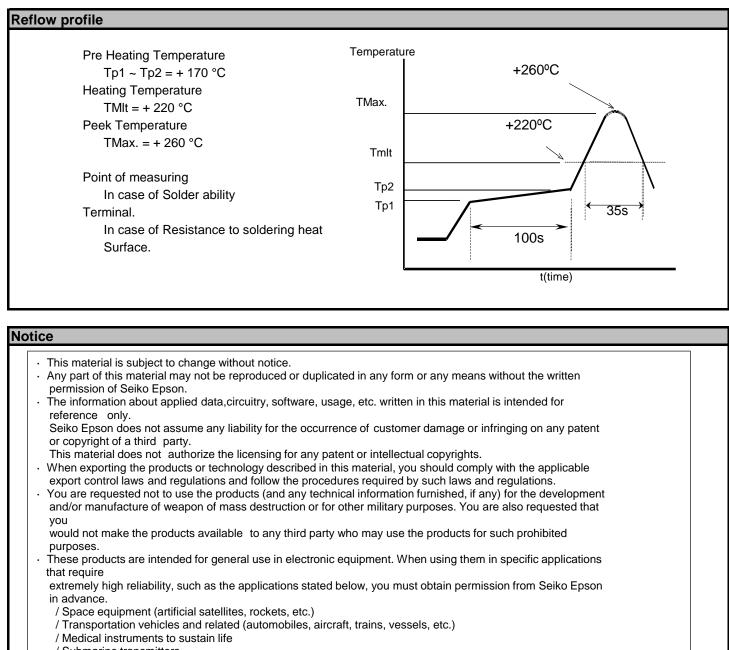


informati	on			
1]Product number last 2 digits code (xx) description				
Q13MC14	620006xx			
Code	Condition	Code	Condition	l
01	Any Q'ty vinyl bag(Tape cut)	14	1000pcs / Reel	L.
11	Any Q'ty / Reel	15	2000pcs / Reel	1
12	250pcs / Reel	00	3000pcs / Reel	1
13	500pcs / Reel	0X	9000pcs / Reel	1
	number las Q13MC14 Code 01 11 12	Q13MC14620006xx Code Condition 01 Any Q'ty vinyl bag(Tape cut) 11 Any Q'ty / Reel 12 250pcs / Reel	number last 2 digits code (xx) descriptionQ13MC14620006xxCodeConditionCode01Any Q'ty vinyl bag(Tape cut)1411Any Q'ty / Reel1512250pcs / Reel00	number last 2 digits code (xx) description The recommended code is "0X" Q13MC14620006xx Code Condition Oode 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

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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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