kHz Range Crystal unit

MC-146

SEIKO EPSON CORPORATION

Product name Product Number / Ordering code

MC-146 38.00000 kHz 12.5 +20.0-20.0 Q14MC14620025xx

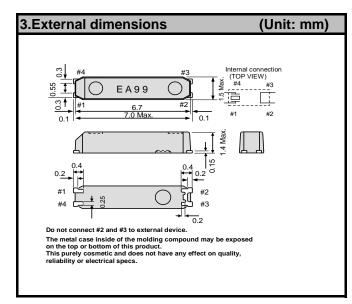
Please refer to the 5.Packing information about xx (last 2 digits)

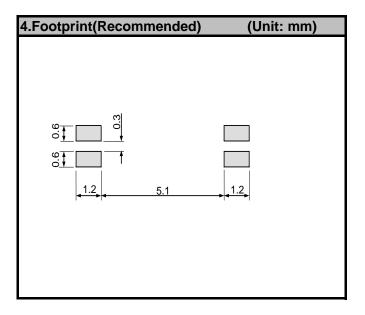
Complies with EU RoHS directive

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		

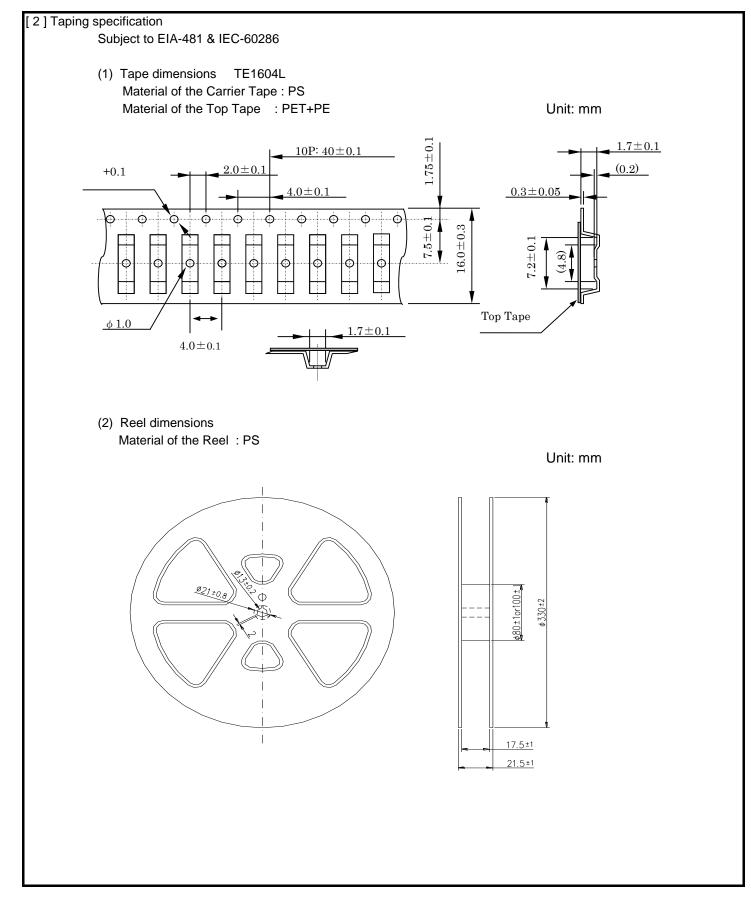
2.Specificatoins(characteristics)						
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks
Nominal frequency	f_nom	-	38	-	kHz	
Operating temperature	T_use	-40	-	85	°C	
Level of drive	DL	-	-	1.0	μW	
Frequency tolerance	f_tol	-20	-	20	x 10 ⁻⁶	+25ºC DL=0.1µW
Turnover temperature	Ti	20	25	30	°C	
Parabolic coefficient	В	-	-	-0.04	x 10 ⁻⁶ /°C ²	
Load capacitance	CL	-	12.5	-	pF	
Motional resistance (ESR)	R1	-	TBD	TBD	kΩ	
Motional capacitance	C1	-	TBD	-	fF	
Shunt capacitance	C0	-	TBD	-	pF	
Motional inductance	L1	-	TBD	-	kH	
Frequency aging	f_age	-5	-	5	x10 ⁻⁶ /yea	@+25°C, First year



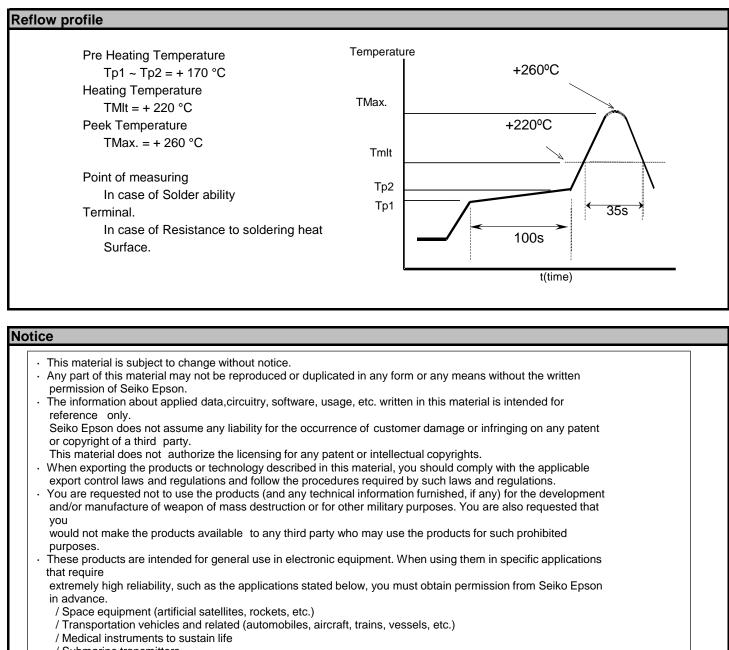


5.Packing	information	on			
[1]Product	1]Product number last 2 digits code (xx) description		The recommended code is "0X"		
	Q14MC14	620025xx			
	Code	Condition	Code	Condition	
	01	Any Q'ty vinyl bag(Tape cut)	14	1000pcs / Reel	
	11	Any Q'ty / Reel	15	2000pcs / Reel	
	12	250pcs / Reel	00	3000pcs / Reel	
	13	500pcs / Reel	0X	9000pcs / Reel	
	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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