kHz Range Crystal unit

MC-146

SEIKO EPSON CORPORATION

Product name Product Number / Ordering code

MC-146 32.000000 kHz 15.0 +20.0-20.0 Q14MC14620018xx

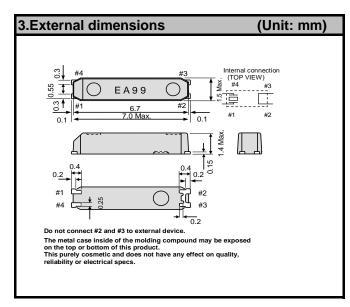
Please refer to the 5.Packing information about xx (last 2 digits)

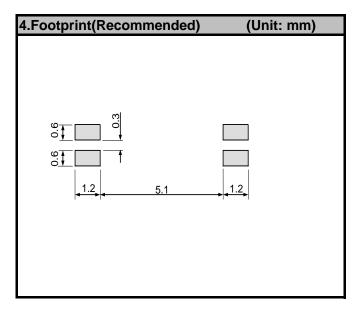
Complies with EU RoHS directive

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	

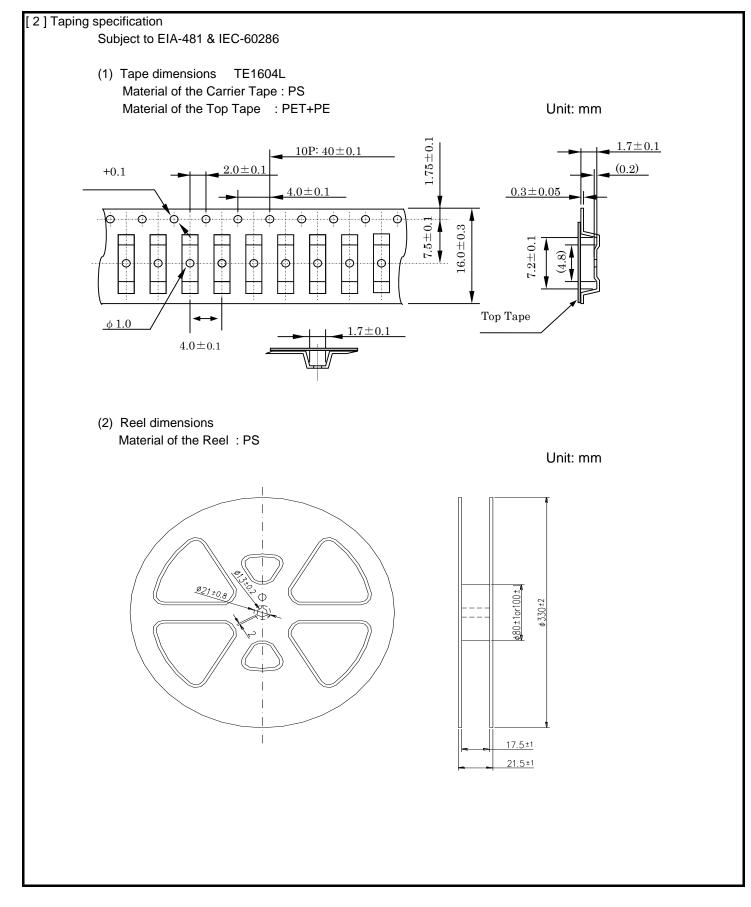
2.Specificatoins(characteristics)						
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks
Nominal frequency	f_nom	-	32	-	kHz	
Operating temperature	T_use	-40	-	+85	٥C	
Level of drive	DL	-	-	1.0	μW	
Frequency tolerance	f_tol	-20.0	-	+20.0	x 10⁻ ⁶	+25°C DL=0.1µW
Turnover temperature	Ti	+20	+25	+30	٥C	
Parabolic coefficient	В	-	-	-0.04	x 10 ⁻⁶ /°C ²	
Load capacitance	CL	-	15.0	-	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	-	+5.0	x10 ⁻⁶ /yea	@+25°C, First year



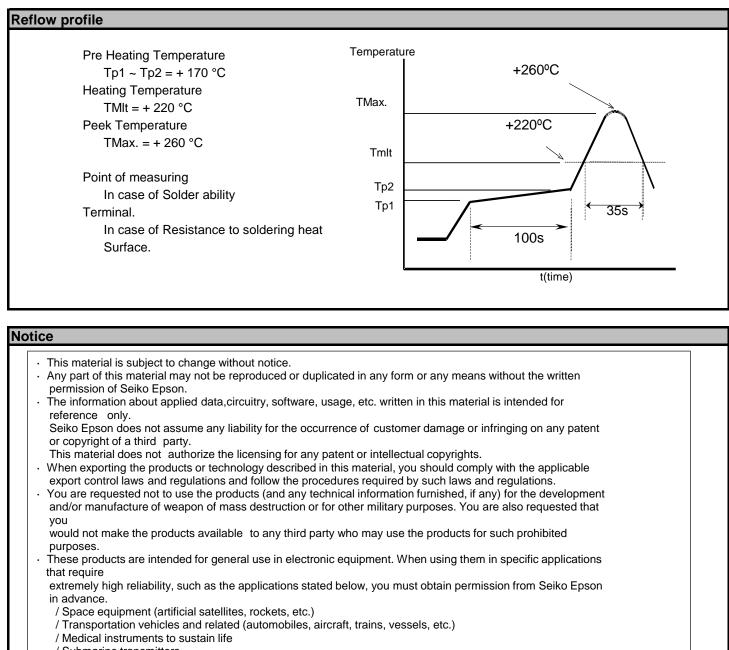


5.Packing	informatio	on			
[1]Product	1]Product number last 2 digits code (xx) description			The recommended code is "0X"	
	Q14MC14	620018xx			_
	Code	Condition	Code	Condition	
	01	Any Q'ty vinyl bag(Tape cut)	14	1000pcs / Reel	
	11	Any Q'ty / Reel	15	2000pcs / Reel	
	12	250pcs / Reel	00	3000pcs / Reel	
	13	500pcs / Reel	0X	9000pcs / Reel	
		-	-		

SEIKO EPSON CORPORATION



SEIKO EPSON CORPORATION



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

· All brands or product names mentioned herein are trademarks and/or registered trademarks of their respective.

Contact us

http://www5.epsondevice.com/en/contact/