# kHz Range Crystal unit

MC-306

### **SEIKO EPSON CORPORATION**

Product name

Product Number / Ordering code

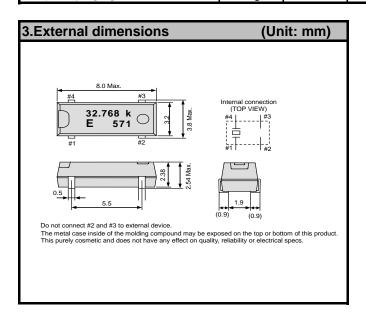
MC-306 77.503000 kHz 10.0 +20.0-20.0 Q14MC30620020xx

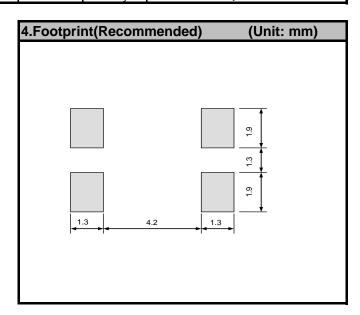
Please refer to the 5.Packing information about xx (last 2 digits)

Complies with EU RoHS directive Reference weight Typ. 126 mg

1.Absolute maximum ratings							
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks	
Storage temperature	T_stg	-55	-	+125	٥C	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	-	77.503	-	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 <sup>-6</sup>	+25°C DL=0.1μW
Turnover temperature	Ti	+20	+25	+30	٥C	
Parabolic coefficient	В	-	-	-0.04	x 10 <sup>-6</sup> /°C <sup>2</sup>	
Load capacitance	CL	-	10.0	-	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 <sup>-6</sup> /yea	@+25°C, First year





# 5.Packing information

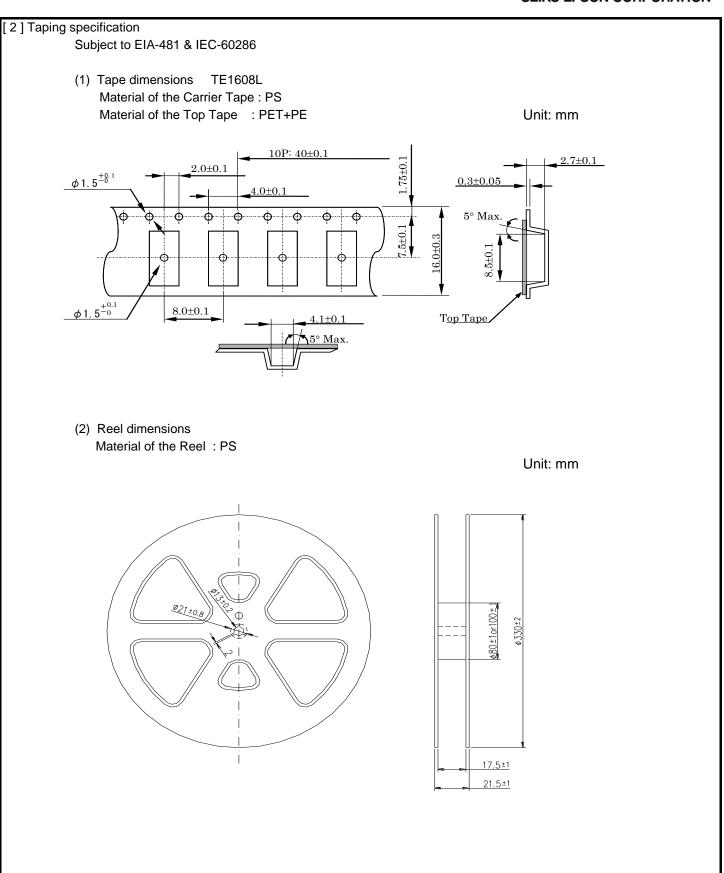
[ 1 ]Product number last 2 digits code (xx) description

The recommended code is "00"

#### Q14MC30620020xx

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		

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# Reflow profile

Pre Heating Temperature

Tp1 ~ Tp2 = + 170 °C

**Heating Temperature** 

TMIt = + 220 °C

Peek Temperature

TMax. = + 260 °C

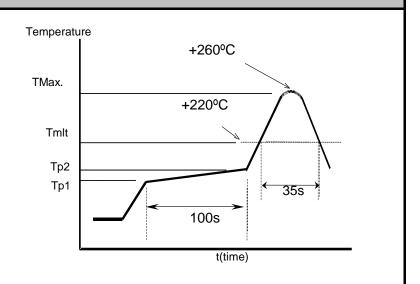
Point of measuring

In case of Solder ability

Terminal.

In case of Resistance to soldering heat

Surface.



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