kHz Range Crystal unit

MC-306

SEIKO EPSON CORPORATION

Product name

Product Number / Ordering code

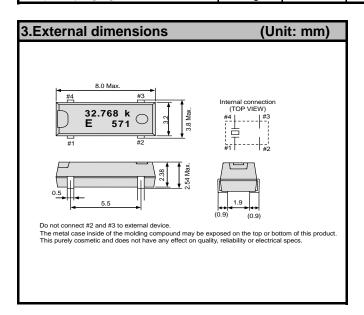
MC-306 32.768000 kHz 19.0 +100.-100. Q13MC30620146xx

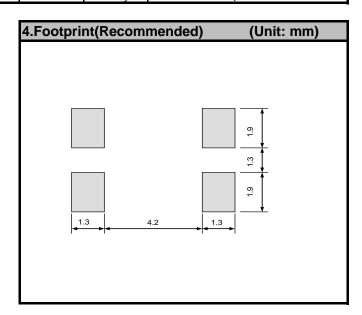
Please refer to the 5.Packing information about xx (last 2 digits)

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	۰C	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	٥C	
Level of drive	DL	-	-	1.0	μW	
Frequency tolerance	f_tol	-100	-	100	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	-	19.0	-	pF	
Motional resistance (ESR)	R1	-	35	50	kΩ	
Motional capacitance	C1	-	1.8	-	fF	
Shunt capacitance	C0	-	0.9	-	pF	
Motional inductance	L1	_	11.7	-	kH	
Frequency aging	f_age	-3	-	3	x10 ⁻⁶ /yea	@+25°C, First year





5.Packing information

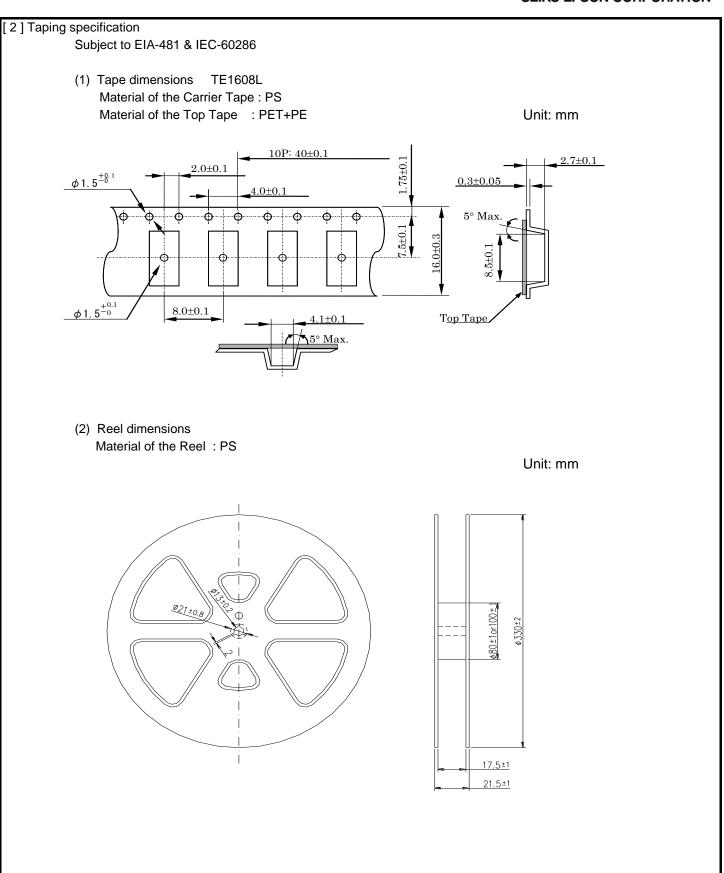
[1]Product number last 2 digits code (xx) description

The recommended code is "00"

Q13MC30620146xx

Q10W00020110XX						
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

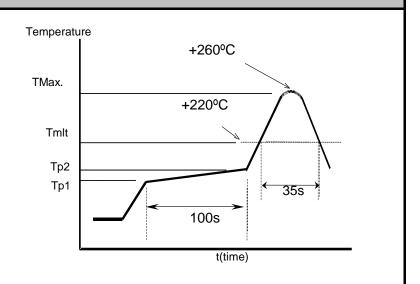
Point of measuring

In case of Solder ability

Terminal.

In case of Resistance to soldering heat

Surface.



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