## kHz Range Crystal unit

## MC-306

### SEIKO EPSON CORPORATION

Product name Product Number / Ordering code

# MC-306 32.768000 kHz 9.0 +10.0-10.0 Q13MC30610016xx

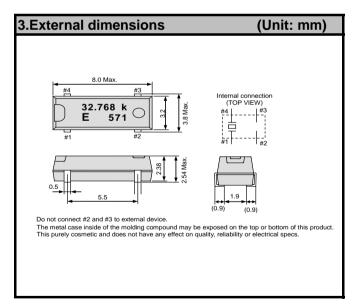
Please refer to the 5.Packing information about xx (last 2 digits)

Complies with EU RoHS directive

Reference weight Typ. 126 mg

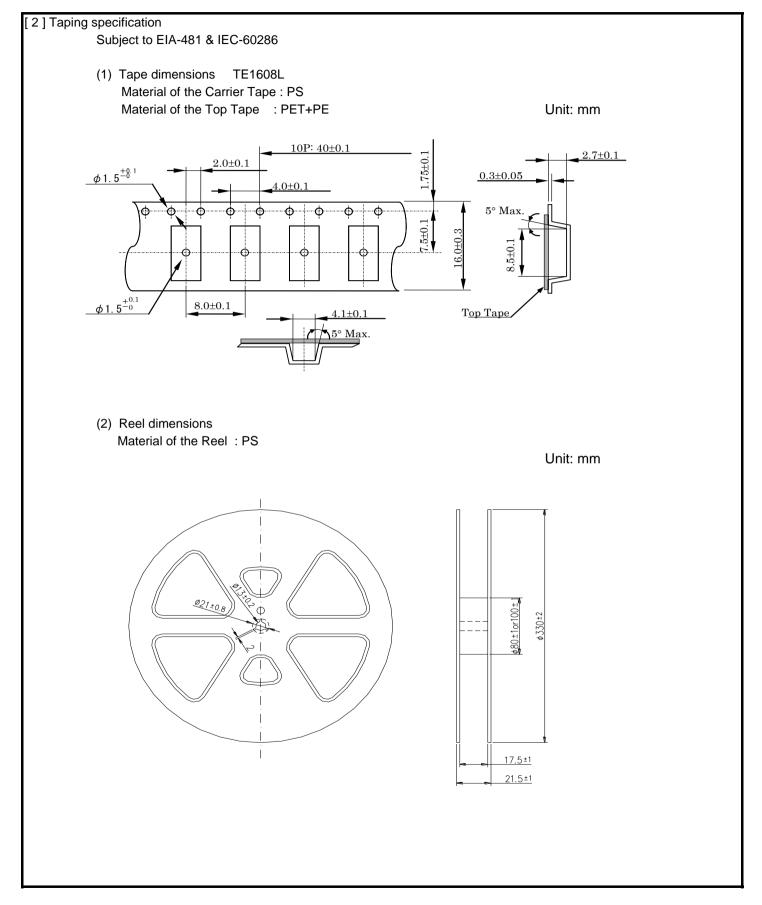
1.Absolute maximum ratings						
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks
Storage temperature	T_stg	-55	-	125	°C	Storage as single product
Maximum drive level	GL	-	-	1.0	μW	

2.Specificatoins(characteris	stics)					
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	-10.0	-	+10.0	x 10⁻ <sup>6</sup>	+25°C DL=0.1µW
Turnover temperature	Ti	20	25	30	°C	
Parabolic coefficient	В	-	-	-0.04	x 10 <sup>-6</sup> /°C <sup>2</sup>	
Load capacitance	CL	-	9.0	-	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 <sup>-6</sup> /yea	@+25°C, First year

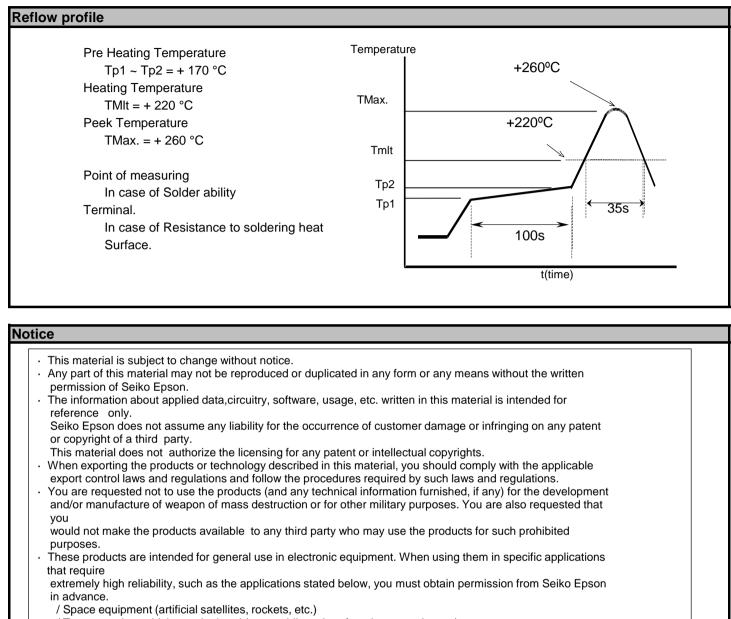


4.Footprint(Recomm	ended)	(Unit: mm)
		(Unit: mm)

5.Packing	informati	on		
[1]Product	number las	st 2 digits code (xx) description		The recommended code is "00"
	Q13MC30	0610016xx		
	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		



### SEIKO EPSON CORPORATION



- / Transportation vehicles and related (automobiles, aircraft, trains, vessels, etc.)
- / Medical instruments to sustain life
- / Submarine transmitters
- / Power stations and related
- / Fire work equipment and security equipment
- / Traffic control equipment
- / And others requiring equivalent reliability.

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