kHz Range Crystal unit

MC-306

SEIKO EPSON CORPORATION

Product name Product Number / Ordering code

MC-306 32.768000 kHz 22.9 +20.0-20.0 Q13MC30620066xx

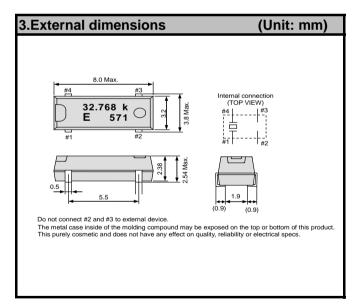
Please refer to the 5.Packing information about xx (last 2 digits)

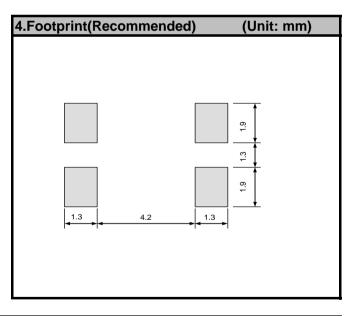
Complies with EU RoHS directive

Reference weight Typ. 126 mg

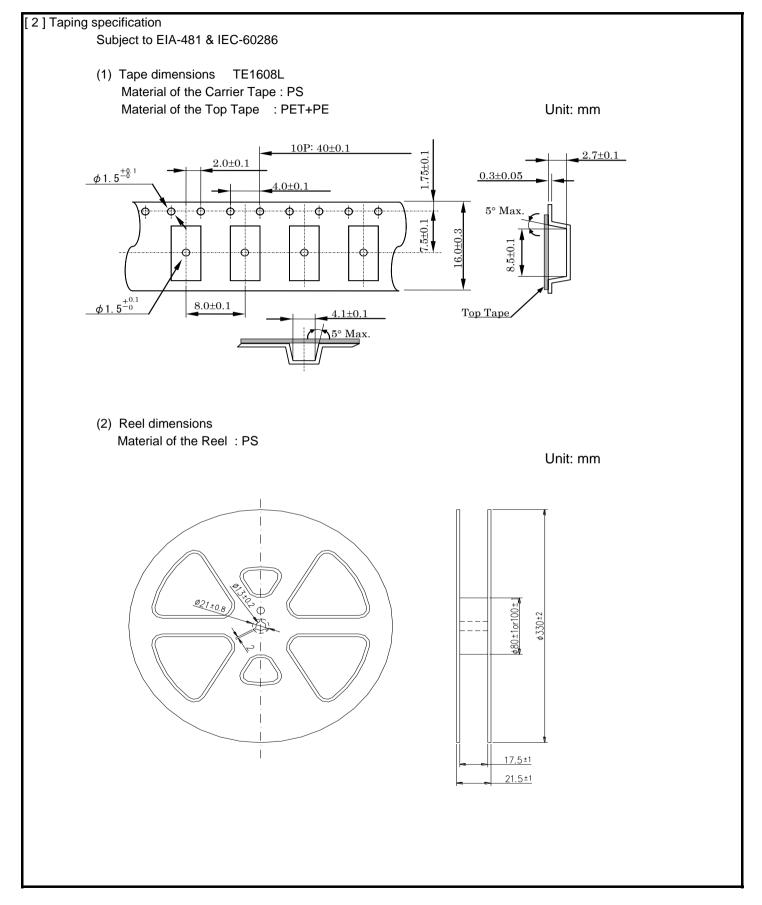
1.Absolute maximum ratings						
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks
Storage temperature	T_stg	-55	-	125	°C	Storage as single product
Maximum drive level	GL	-	-	1.0	μW	

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	-20.0	-	+20.0	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	-	22.9	-	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	@+25ºC, First year

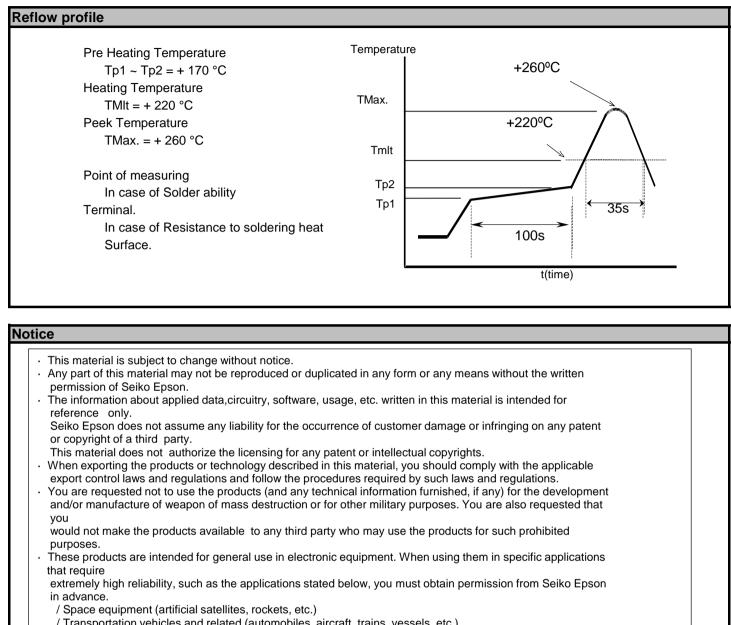




5.Packing	information	on					
[1]Product	1]Product number last 2 digits code (xx) description			The recommended code is "00"			
	Q13MC30	620066xx					
	Code	Condition	Code	Condition			
	01	Any Q'ty vinyl bag(Tape cut)	14	1000pcs / Reel			
	11	Any Q'ty / Reel	15	2000pcs / Reel			
	12	250pcs / Reel	00	3000pcs / Reel			
	13	500pcs / Reel					



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- / 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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http://www.xtal.cc TEL 0755-33533774