# MHz Range Crystal unit

## FA-238

 Product name
 FA-238
 32.000000
 MHz 16.0 +50.0-50.0

 Product Number / Ordering code
 Q22FA23801942xx

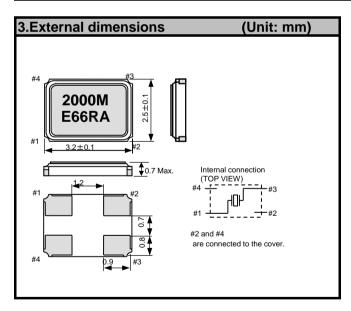
Please refer to the 5.Packing information about xx (last 2 digits)

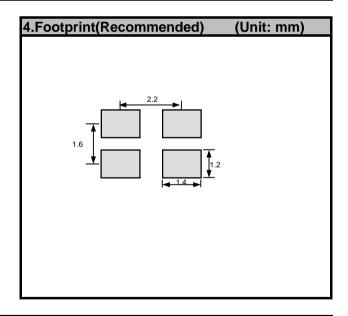
Pb free / Complies with EU RoHS directive

Reference weight Typ. 16 mg

1.Absolute maximum ratings						
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks
Storage temperature	T_stg	-40	-	+125	°C	Storage as single product
Operating temperature	T_use	-40	-	+105	°C	

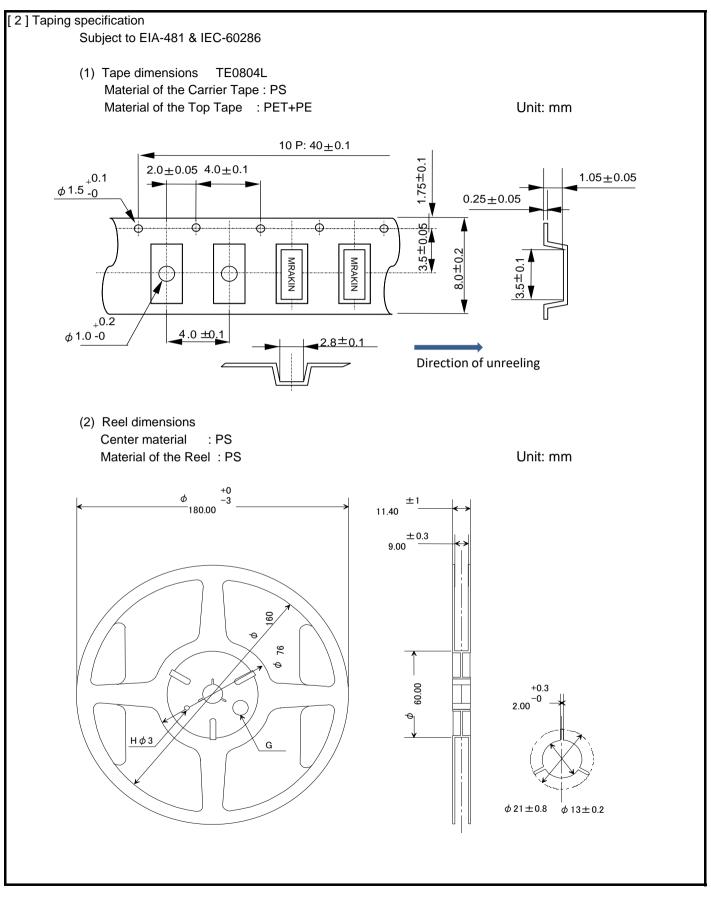
2.Specifications(characteristic	s)					
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks
Nominal frequency	f_nom	-	32.000000	_	MHz	Fundamental
Frequency tolerance	f_tol	-50	-	+50	x 10- <sup>6</sup>	@+25°C
Frequency Stability over temperature	f_tem	-30	-	+30	x 10⁻ <sup>6</sup>	-40ºC to +85ºC
Operating temperature	T_use	-40	-	+85	°C	
Level of drive	DL	10	100	200	μW	
Load capacitance	CL		16	—	pF	
Motional resistance (ESR)	R1	-	-	40	Ω	
Motional capacitance	C1	-	3.69	-	fF	
Motional inductance	L1	-	6.70	-	mH	
Shunt capacitance	C0	-	1.21	-	pF	
Frequency aging	f_age	-5		+5	x10 <sup>-6</sup> /yea	@+25°C, First year



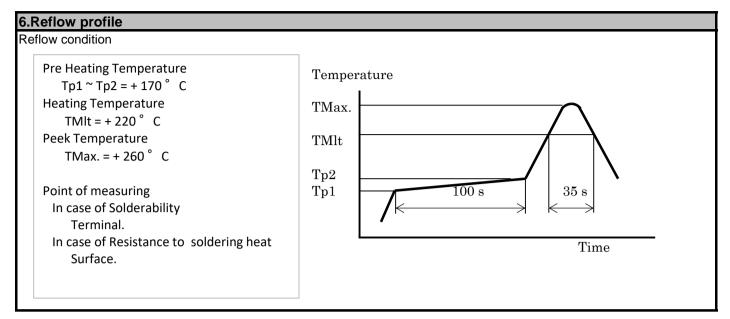


[ 1 ]Product number last 2 digits code (xx) description       The recommended code is "17"         Q22FA23801942xx       Code       Condition         Code       Condition       Code       Condition
Code Condition Code Condition
01 Any Q'ty vinyl bag(Tape cut) 14 1000pcs / Reel
11 Any Q'ty / Reel 15 2000pcs / Reel
12 250pcs / Reel 00 3000pcs / Reel
13 500pcs / Reel 17 4000pcs / Reel

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that require

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- / Power stations and related
- / Fire work equipment and security equipment
- / Traffic control equipment
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