MHz Range Crystal unit

FA-238

 Product name
 FA-238
 20.000000
 MHz 15.0 +50.0-50.0

 Product Number / Ordering code
 Q22FA23800987xx

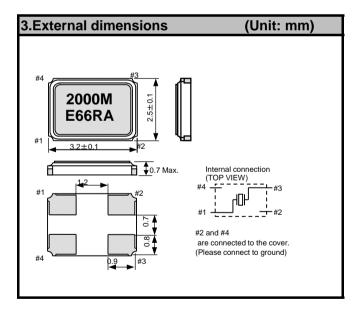
Please refer to the 5.Packing information about xx (last 2 digits)

Pb free / Complies with EU RoHS directive

Reference weight 1	Гу	p. 1	16 mg	
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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	

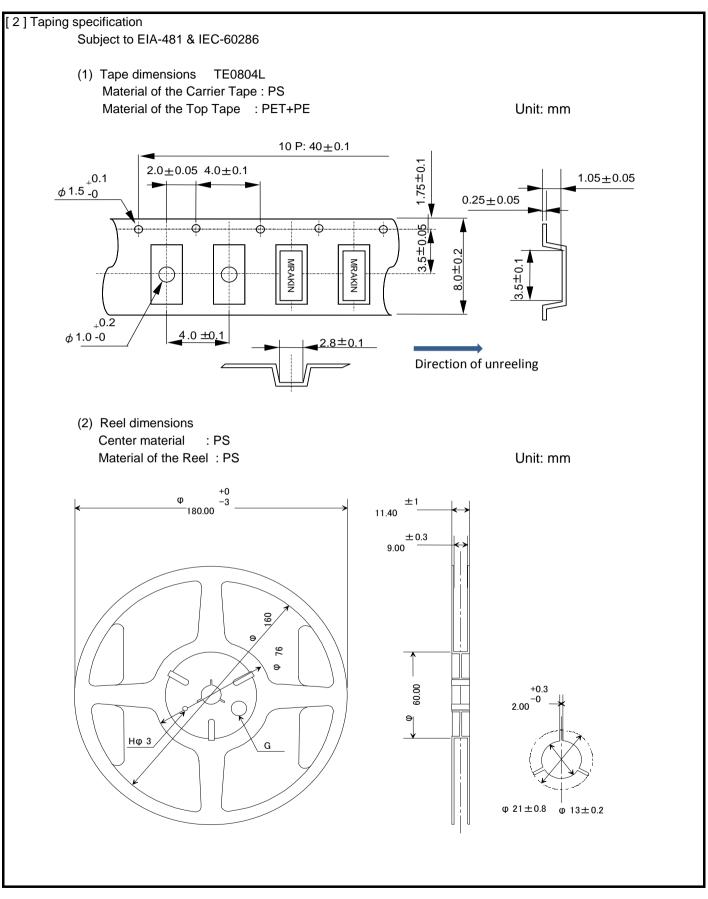
2.Specifications(characteristic	s)					
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks
Nominal frequency	f_nom		20.000000	_	MHz	Fundamental
Frequency tolerance	f_tol	-50	-	+50	x 10- ⁶	@+25°C
Frequency Stability over temperature	f_tem	-30	-	+30	x 10 ⁻⁶	-20ºC to +70ºC
Operating temperature	T_use	-20	-	+70	°C	
Level of drive	DL	10	100	200	μW	
Load capacitance	CL		15	_	pF	
Motional resistance (ESR)	R1	-	-	60	Ω	
Motional capacitance	C1	-	2.56	-	fF	
Motional inductance	L1	-	24.76	-	mH	
Shunt capacitance	C0	-	0.98	-	pF	
Frequency aging	f_age	-5	_	+5	x10 ⁻⁶ /yea	@+25°C, First year



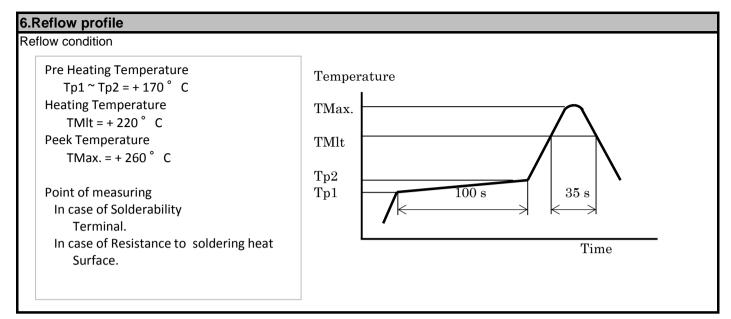
4.Footprint(Recommended)	(Unit: mm)
	2

5.Packing	informat i	ion		
[1]Product number last 2 digits code (xx) description			The recommended code is "17"	
	Q22FA23	800987xx		
	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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- / Fire work equipment and security equipment
- / Traffic control equipment
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