MHz Range Crystal unit FA-238V

Product name FA-238V 13.333000 MHz 7.0 +50.0-50.0

Product Number / Ordering code Q22FA23V00448xx

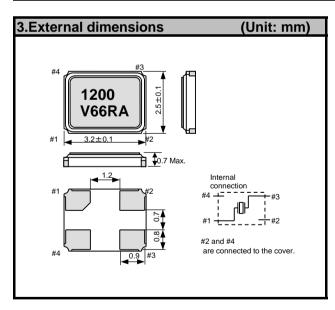
Please refer to the 5.Packing information about xx (last 2 digits)

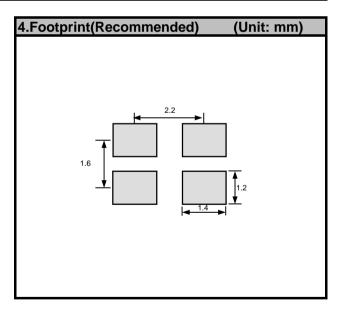
Pb free / Complies with EU RoHS directive

Reference weight Typ. 16 mg

1.Absolute maximum ratings	5					
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	

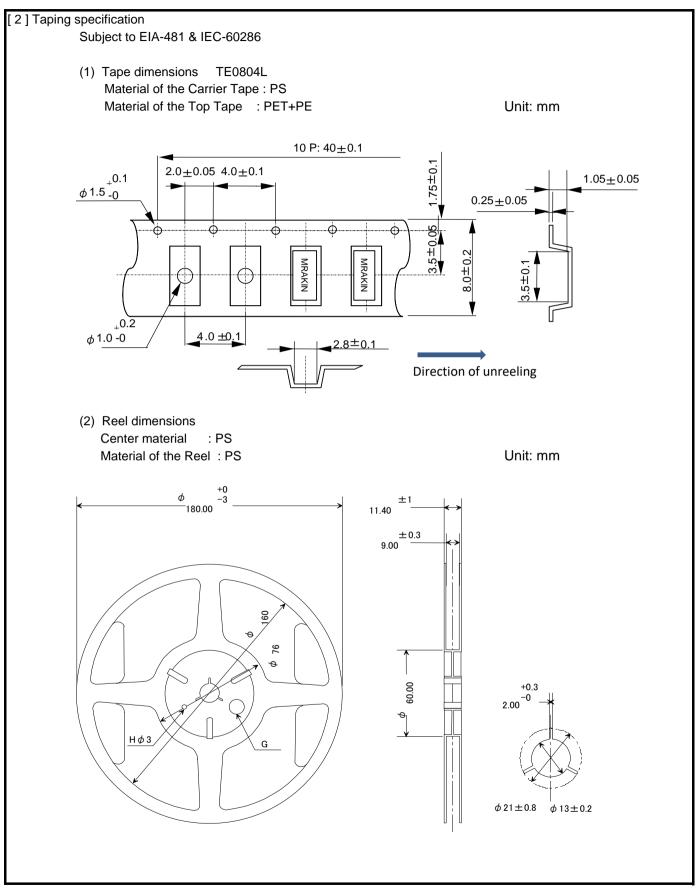
2.Specifications(characteri	stics)					
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks
Nominal frequency	f_nom	1	13.333000	_	MHz	Fundamental
Frequency tolerance	f_tol	-50	-	+50	x 10- ⁶	@+25°C
Frequency Stability over temperature	f_tem	-30	-	+30	x 10⁻ ⁶	-20ºC to +70ºC
Operating temperature	T_use	-20	-	+70	°C	
Level of drive	DL	10	100	200	μW	
Load capacitance	CL	—	7	—	pF	
Motional resistance (ESR)	R1	-	-	80	Ω	
Motional capacitance	C1	-	2.34	-	fF	
Motional inductance	L1	-	60.88	-	mH	
Shunt capacitance	C0	-	1.00	-	pF	
Frequency aging	f_age	-5	_	+5	x10 ⁻⁶ /yea	@+25°C, First year



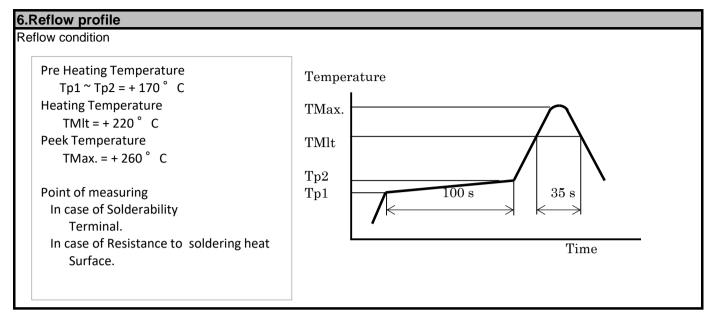


5.Packing	informat i	ion		
[1]Product	number la	st 2 digits code (xx) description		The recommended code is "17"
	Q22FA23	V00448xx		
	Code	Condition	Code	Condition
	01	Any Q'ty vinyl bag(Tape cut)	14	1000pcs / Reel
	11	Any Q'ty / Reel	15	2000pcs / Reel
	12	250pcs / Reel	00	3000pcs / Reel
	13	500pcs / Reel	17	4000pcs / Reel

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

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