MHz Range Crystal unit FA-238V

Product name FA-238V 13.560000 MHz 12.0 +20.0-20.0

Product Number / Ordering code Q22FA23V00123xx

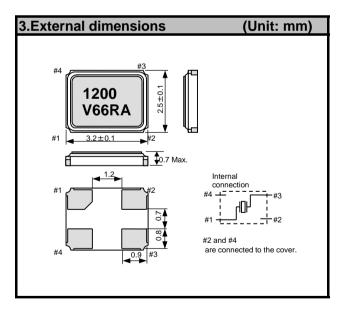
Please refer to the 5.Packing information about xx (last 2 digits)

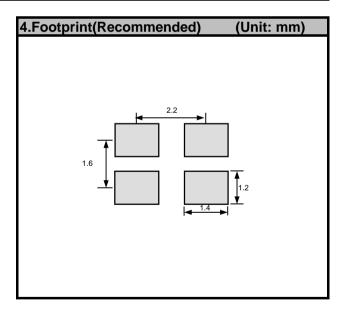
Pb free / Complies with EU RoHS directive

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	

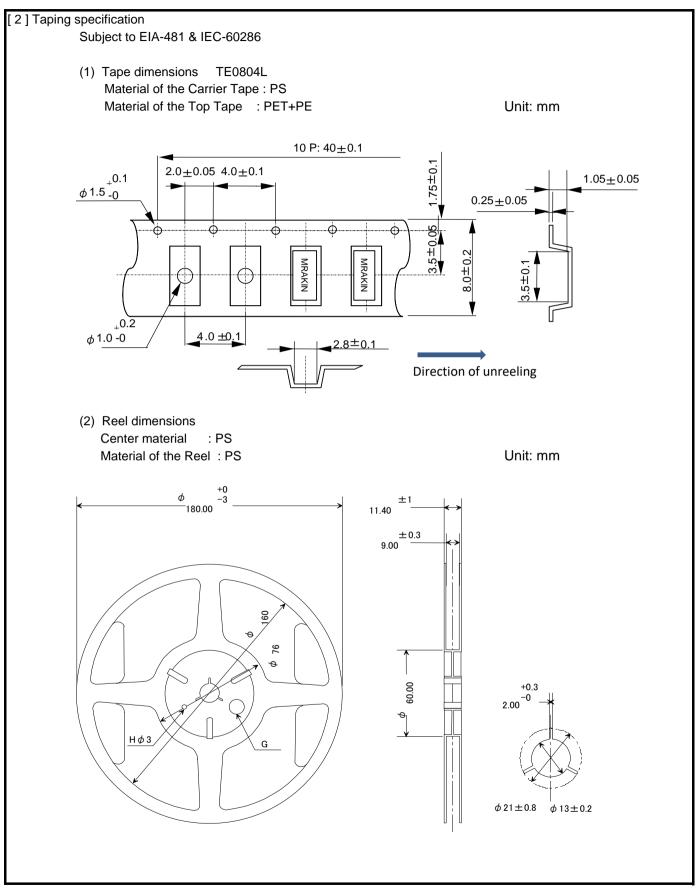
2.Specifications(characteristics)						
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks
Nominal frequency	f_nom		13.560000		MHz	Fundamental
Frequency tolerance	f_tol	-20	-	+20	x 10- ⁶	@+25°C
Frequency Stability over temperature	f_tem	-30	-	+30	x 10⁻ ⁶	-40ºC to +85ºC
Operating temperature	T_use	-40	-	+85	°C	
Level of drive	DL	10	100	200	μW	
Load capacitance	CL	—	12	—	pF	
Motional resistance (ESR)	R1	-	-	80	Ω	
Motional capacitance	C1	-	1.97	-	fF	
Motional inductance	L1	-	69.93	-	mH	
Shunt capacitance	C0	-	1.00	-	pF	
Frequency aging	f_age	-5	_	+5	x10 ⁻⁶ /yea	@+25°C, First year



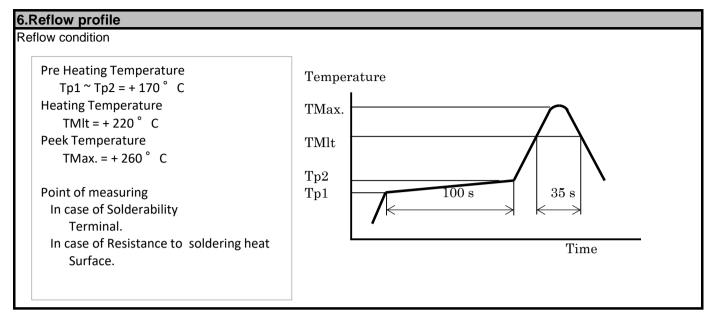


5.Packing	informati	ion			
[1]Product	number la	st 2 digits code (xx) description		The recommended code is "17"	
	Q22FA23	V00123xx			
	Code	Condition	Code	Condition	
	01	Any Q'ty vinyl bag(Tape cut)	14	1000pcs / Reel	
	11	Any Q'ty / Reel	15	2000pcs / Reel	
	12	250pcs / Reel	00	3000pcs / Reel	
	13	500pcs / Reel	17	4000pcs / Reel	

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	/ 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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