MHz Range Crystal unit FA-238V

Product name FA-238V 12.000000 MHz 20.0 +20.0-20.0 Product Number / Ordering code Q22FA23V00521xx

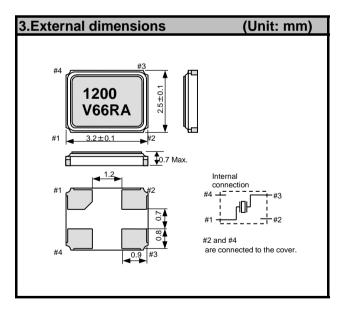
Please refer to the 5.Packing information about xx (last 2 digits)

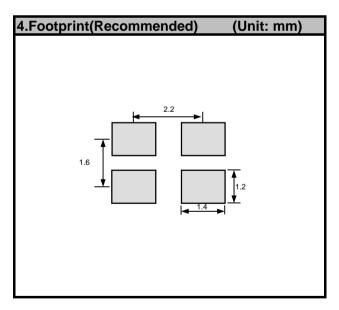
Pb free / Complies with EU RoHS directive

Reference weight Typ. 16 mg

1.Absolute maximum rating	S					
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	٥C	

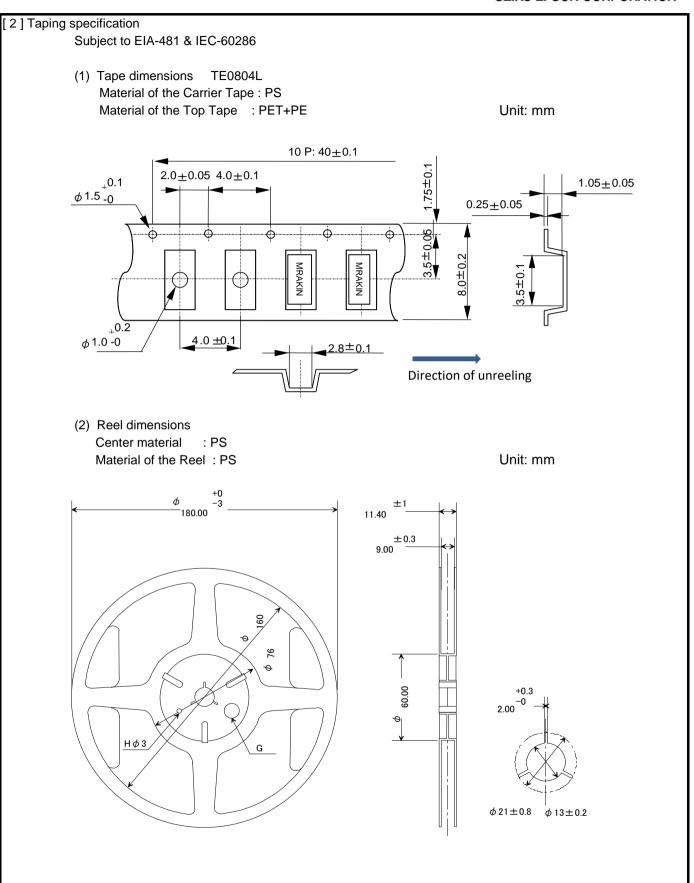
2.Specifications(characteristics)							
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks	
Nominal frequency	f_nom	_	12.000000	1	MHz	Fundamental	
Frequency tolerance	f_tol	-20	-	+20	x 10- ⁶	@+25°C	
Frequency Stability over temperature	f_tem	-30	-	+30	x 10 ⁻⁶	-20°C to +70°C	
Operating temperature	T_use	-20	-	+70	°C		
Level of drive	DL	10	100	200	μW		
Load capacitance	CL	_	20	_	pF		
Motional resistance (ESR)	R1	-	-	100	Ω		
Motional capacitance	C1	-	2.01	-	fF		
Motional inductance	L1	-	87.68	-	mΗ		
Shunt capacitance	C0	-	0.96	-	pF		
Frequency aging	f_age	-5	_	+5	x10 ⁻⁶ /yea	@+25°C, First year	





5.Packing	informati	ion				
[1]Product number last 2 digits code (xx) description				The recommended code is "17"		
	Q22FA23	V00521xx				
	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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6.Reflow profile

Reflow condition

Pre Heating Temperature

 $Tp1 \sim Tp2 = +170 \circ C$

Heating Temperature

TMIt = +220° C

Peek Temperature

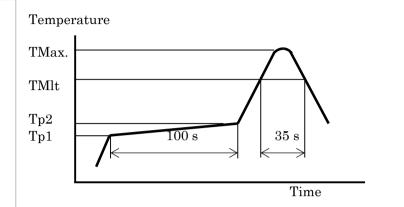
TMax. = $+260^{\circ}$ C

Point of measuring

In case of Solderability

Terminal.

In case of Resistance to soldering heat Surface.



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