MHz Range Crystal unit FA-238V

Product name FA-238V 12.288000 MHz 18.0 +20.0-20.0 Product Number / Ordering code Q22FA23V00372xx

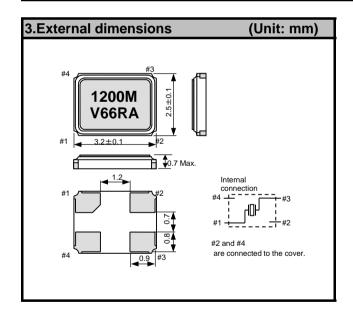
Please refer to the 5.Packing information about xx (last 2 digits)

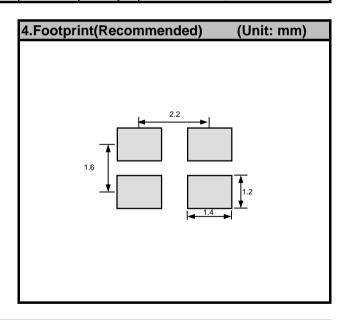
Pb free / Complies with EU RoHS directive

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	°C	

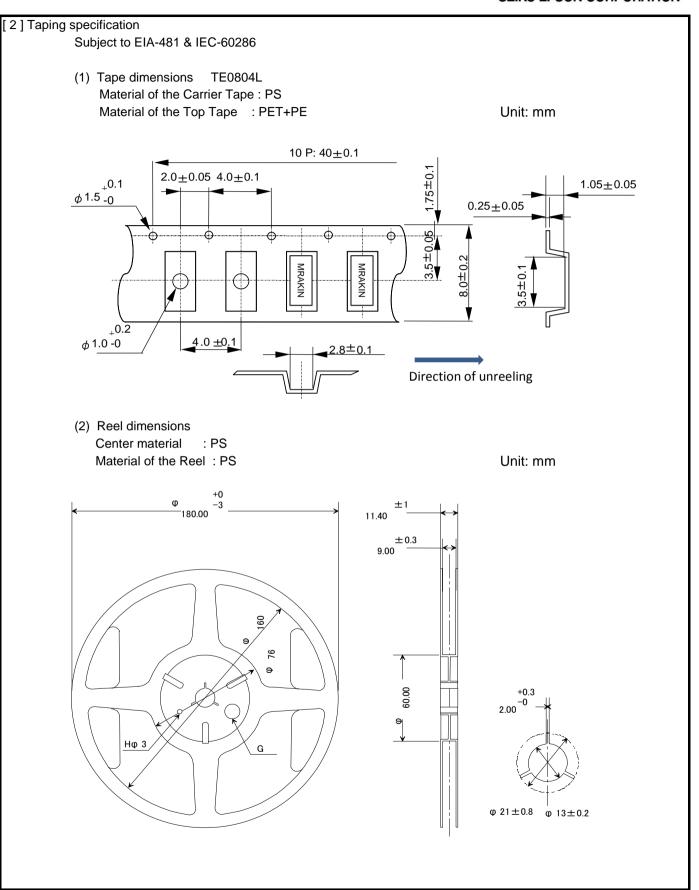
2.Specifications(character	ristics)					
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks
Nominal frequency	f_nom	=	12.288000	_	MHz	Fundamental
Frequency tolerance	f_tol	-20	-	+20	x 10- ⁶	@+25°C
Frequency Stability over temperature	f_tem	-30	-	+30	x 10 ⁻⁶	-40°C to +85°C
Operating temperature	T_use	-40	-	+85	°C	
Level of drive	DL	10	100	200	μW	
Load capacitance	CL	=	18	_	pF	
Motional resistance (ESR)	R1	-	-	100	Ω	
Motional capacitance	C1	-	2.08	-	fF	
Motional inductance	L1	-	80.71	-	mH	
Shunt capacitance	C0	-	1.01	-	pF	
Frequency aging	f_age	-5	_	+5	x10 ⁻⁶ /yea	@+25°C, First year





informati	ion			
[1]Product number last 2 digits code (xx) description		The recommended code is "17"		
Q22FA23	V00372xx			
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	
	number la: Q22FA23 Code 01 11	Q22FA23V00372xx Code Condition 01 Any Q'ty vinyl bag(Tape cut) 11 Any Q'ty / Reel 12 250pcs / Reel	number last 2 digits code (xx) description Q22FA23V00372xx Code Condition Code 01 Any Q'ty vinyl bag(Tape cut) 14 11 Any Q'ty / Reel 15 12 250pcs / Reel 00	

SEIKO EPSON CORPORATION



6.Reflow profile

Reflow condition

Pre Heating Temperature

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

Heating Temperature

TMIt = +220° C

Peek Temperature

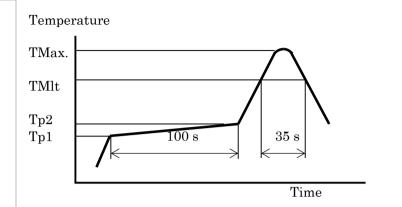
TMax. = +260 ° C

Point of measuring

In case of Solderability

Terminal.

In case of Resistance to soldering heat Surface.



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