

Product nameFA-23825.000000 MHz 10.0 +50.0-50.0

Product Number / Ordering codeQ22FA23800013xx

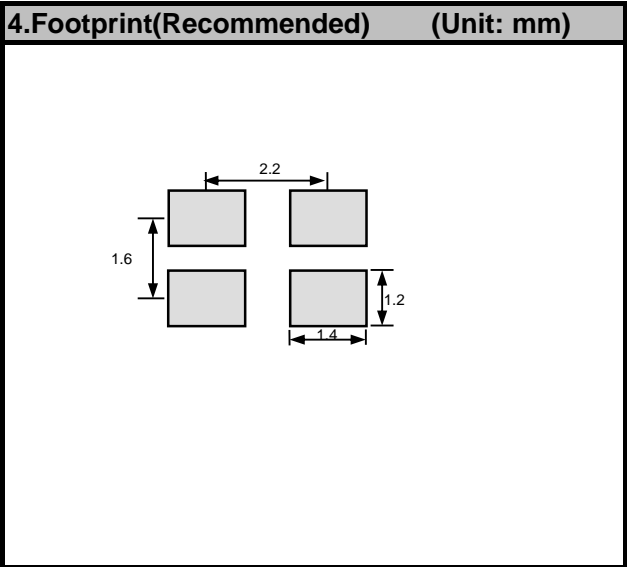
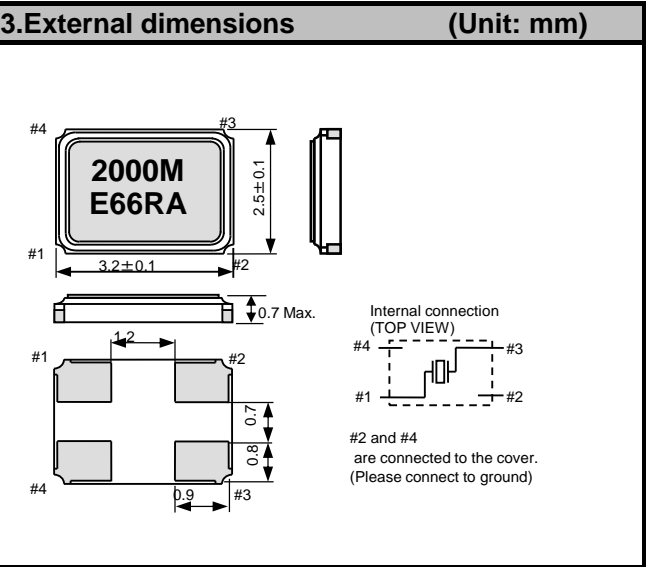
Please refer to the 5.Packing information about xx (last 2 digits)

Pb free / Complies with EU RoHS directive

Reference weight Typ. 16 mg

1.Absolute maximum ratings						
Parameter	Symbol	Min.	Typ.	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.	Typ.	Max.	Unit	Conditions / Remarks
Nominal frequency	f_nom	—	25.000000	—	MHz	Fundamental
Frequency tolerance	f_tol	-50	-	+50	x 10 <sup>-6</sup>	@+25°C
Frequency Stability over temperature	f_tem	-30	-	+30	x 10 <sup>-6</sup>	-20°C to +70°C
Operating temperature	T_use	-20	-	+70	°C	
Level of drive	DL	10	100	200	μW	
Load capacitance	CL	—	10	—	pF	
Motional resistance (ESR)	R1	-	-	50	Ω	
Motional capacitance	C1	-	3.07	-	fF	
Motional inductance	L1	-	13.18	-	mH	
Shunt capacitance	C0	-	1.08	-	pF	
Frequency aging	f_age	-5	—	+5	x10 <sup>-6</sup> /yea	@+25°C, First year



5.Packing information

[ 1 ]Product number last 2 digits code (xx) description

The recommended code is "17"

Q22FA23800013xx

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

(1) Tape dimensions TE0804L

Material of the Top Tape : PET+PE

Technical drawing of a metal strip with dimensions and a cross-section. The main view shows a strip with a total width of  $10 \text{ P: } 40 \pm 0.1$ . The strip has a central section with two rectangular cutouts labeled "MRKIN". The dimensions are as follows:

- Top edge:  $2.0 \pm 0.05$  and  $4.0 \pm 0.1$
- Left edge:  $\phi 1.5^{+0.1}_{-0}$  and  $\phi 1.0^{+0.2}_{-0}$
- Right edge:  $1.75 \pm 0.1$  and  $0.25 \pm 0.05$
- Bottom edge:  $4.0 \pm 0.1$  and  $2.8 \pm 0.1$
- Internal dimensions:  $3.5 \pm 0.05$  and  $8.0 \pm 0.2$

A cross-section view on the right shows a U-shaped profile with a width of  $1.05 \pm 0.05$  and a height of  $3.5 \pm 0.1$ . A blue arrow indicates the "Direction of unreeling".

Material of the Reel : PS

Technical drawing of a wheel with dimensions and tolerances:

- Overall Diameter:**  $\Phi 180.00$
- Hub Diameter:**  $\Phi 76$
- Hub Bore Diameter:**  $\Phi 3$
- Hub Length:**  $60.00$
- Hub Tolerances:**  $+0.3$  and  $-0$
- Hub Diameter Tolerances:**  $\Phi 21 \pm 0.8$  and  $\Phi 13 \pm 0.2$
- Hub Features:** H, G, and a central hole.
- Spoke Dimensions:**  $160$  (spoke length),  $11.40$  (spoke width),  $\pm 1$  (spoke width tolerance),  $\pm 0.3$  (spoke width tolerance),  $9.00$  (spoke width tolerance).

## 6. Reflow profile

### Reflow condition

Pre Heating Temperature

$T_{p1} \sim T_{p2} = +170^{\circ}\text{C}$

Heating Temperature

$T_{Mlt} = +220^{\circ}\text{C}$

Peek Temperature

$T_{Max.} = +260^{\circ}\text{C}$

Point of measuring

In case of Solderability  
Terminal.

In case of Resistance to soldering heat  
Surface.

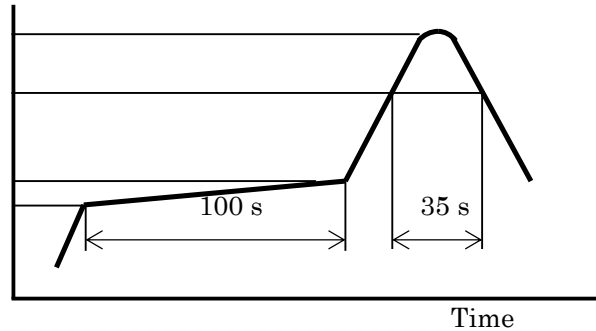
Temperature

$T_{Max.}$

$T_{Mlt}$

$T_{p2}$

$T_{p1}$



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