

Product nameFA-23816.000000 MHz 18.0 +50.0-50.0

Product Number / Ordering codeQ22FA23800367xx

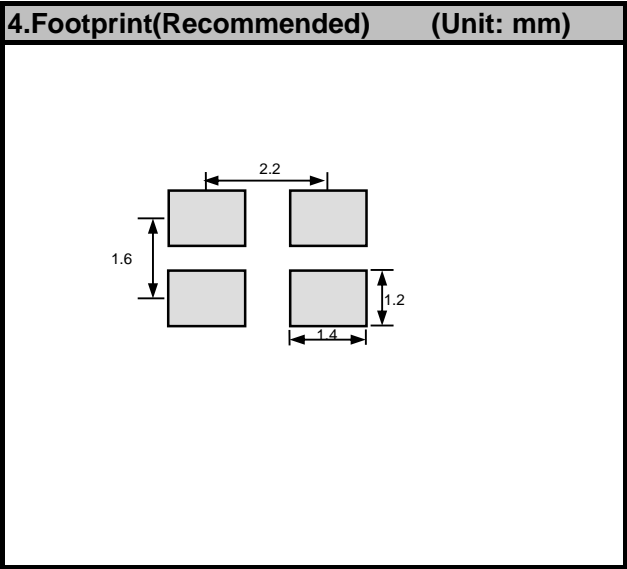
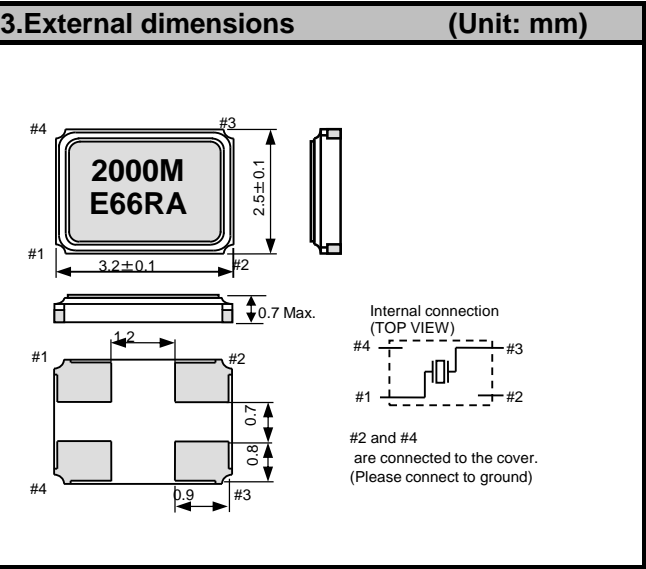
Please refer to the 5.Packing information about xx (last 2 digits)

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	—	16.000000	—	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	—	18	—	pF	
Motional resistance (ESR)	R1	-	-	80	Ω	
Motional capacitance	C1	-	1.96	-	fF	
Motional inductance	L1	-	50.43	-	mH	
Shunt capacitance	C0	-	0.93	-	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"

Q22FA23800367xx

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

[illegible]

Material of the Reel : PS

Technical drawing of a wheel assembly, showing front, side, and detail views with dimensions.

**Front View (Left):**

- Overall diameter:  $\Phi 180.00$
- Hub diameter:  $\Phi 76$
- Hub bore diameter:  $\Phi 3$
- Spoke diameter:  $\Phi 160$
- Spoke width:  $G$
- Hub thickness:  $H$

**Side View (Right):**

- Overall width:  $11.40$
- Hub thickness:  $9.00$
- Spoke thickness:  $\pm 1$
- Spoke width:  $\pm 0.3$
- Spoke diameter:  $\Phi 60.00$

**Detail View (Bottom Right):**

- Spoke diameter:  $\Phi 21 \pm 0.8$
- Spoke width:  $\Phi 13 \pm 0.2$
- Spoke thickness:  $+0.3$
- Spoke width:  $2.00$

## 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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