

Product name FA-128 50.000000 MHz 8.0 +30.0-30.0

Product Number / Ordering code Q22FA12800581xx

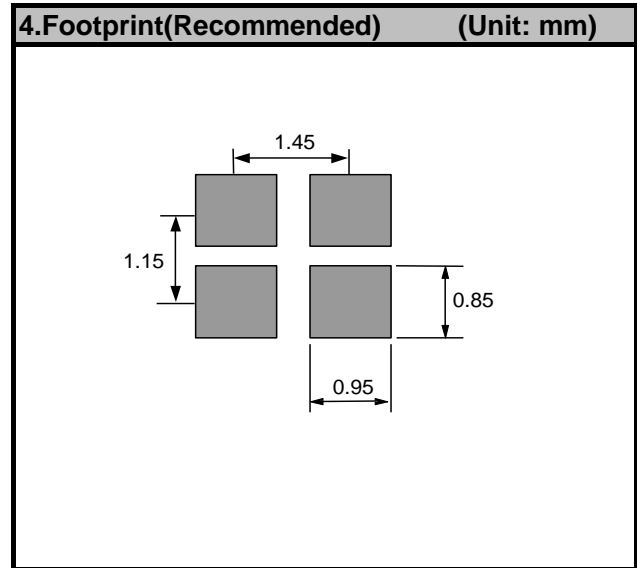
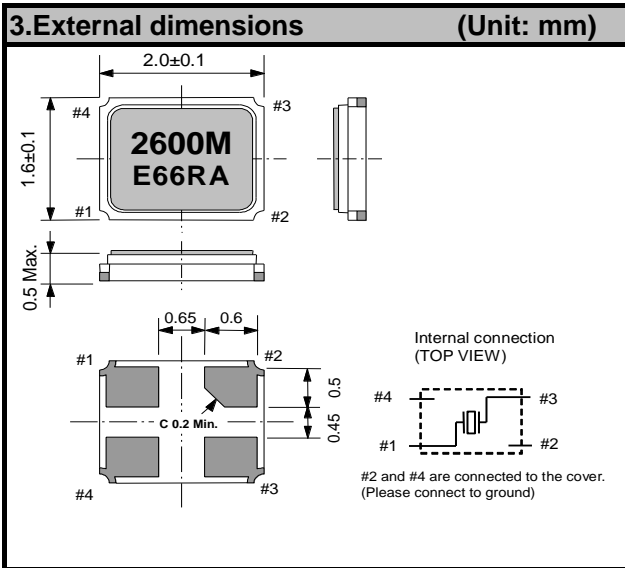
Please refer to the 5.Packing information about xx (last 2 digits)

Pb free / Complies with EU RoHS directive

Reference weight Typ. 7 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  | —    | 50.000000 | —    | MHz                    | Fundamental          |
| Frequency tolerance                  | f_tol  | -30  | -         | +30  | x 10 <sup>-6</sup>     | @+25°C               |
| Frequency Stability over temperature | f_tem  | -50  | 0         | +50  | x 10 <sup>-6</sup>     | -40°C to +85°C       |
| Operating temperature                | T_use  | -40  | 0         | +85  | °C                     |                      |
| Level of drive                       | DL     | 10   | -         | 100  | μW                     |                      |
| Load capacitance                     | CL     | —    | 8         | —    | pF                     |                      |
| Motional resistance (ESR)            | R1     | -    | -         | 60   | Ω                      |                      |
| Motional capacitance                 | C1     | -    | 3.62      | -    | fF                     |                      |
| Motional inductance                  | L1     | -    | 2.80      | -    | mH                     |                      |
| Shunt capacitance                    | C0     | -    | 0.89      | -    | pF                     |                      |
| Frequency aging                      | f_age  | -1   | —         | +1   | 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 "18"

Q22FA12800581xx

| Code | Condition                    | Code | Condition      |
|------|------------------------------|------|----------------|
| 01   | Any Q'ty vinyl bag(Tape cut) | 00   | 3000pcs / Reel |
| 11   | Any Q'ty / Reel              | 18   | 5000pcs / Reel |
| 12   | 250pcs / Reel                |      |                |
| 14   | 1000pcs / Reel               |      |                |

[ 2 ] Taping specification

Subject to EIA-481 & IEC-60286

(1) Tape dimensions TE0804L

Material of the Carrier Tape : PS

Material of the Top Tape : PET+PE

Unit: mm



(2) Reel dimensions

Center material : PS

Material of the Reel : PS

Unit: mm



**6.Reflow profile**

Reflow condition (Follow of JEDEC STD-020D.01)

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