

Product name FA2016AN 24.000000 MHz 8.0 +10.0-10.0

Product Number / Ordering code X1E0003510014xx

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

Pb free / Complies with EU RoHS directive

Reference weight Typ. 6 mg

**1.Absolute maximum ratings**

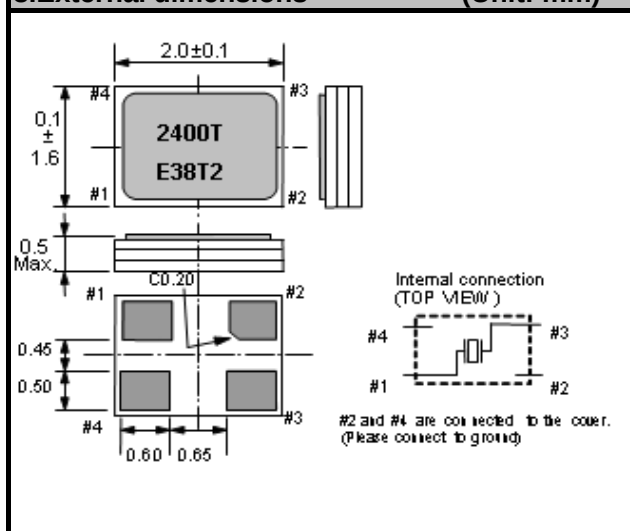
| Parameter           | Symbol | Min. | Typ. | Max. | Unit | Conditions / Remarks      |
|---------------------|--------|------|------|------|------|---------------------------|
| Storage temperature | T_stg  | -40  | -    | +125 | °C   | Storage as single product |

**2.Specifications(characteristics)**

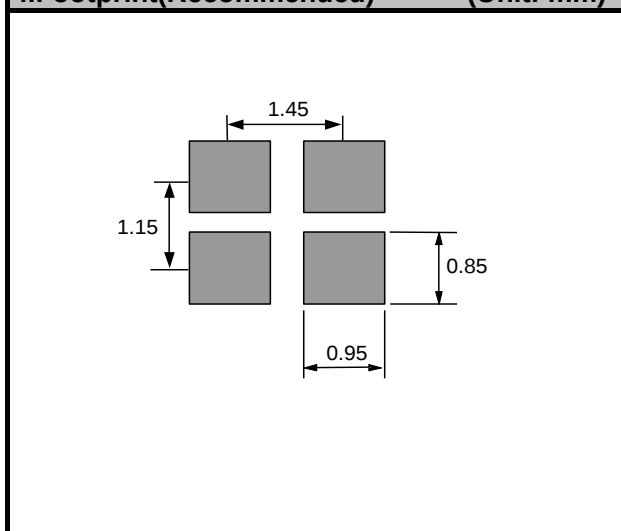
| Parameter                            | Symbol | Min. | Typ.      | Max. | Unit                   | Conditions / Remarks   |
|--------------------------------------|--------|------|-----------|------|------------------------|------------------------|
| Nominal frequency                    | f_nom  | —    | 24.000000 | —    | MHz                    | Fundamental            |
| Frequency tolerance                  | f_tol  | -10  | -         | 10   | x 10 <sup>-6</sup>     | @+25°C                 |
| Frequency Stability over temperature | f_tem  | -10  | -         | 10   | x 10 <sup>-6</sup>     | -20°C to 75°C          |
| Operating temperature                | T_use  | -20  | -         | +75  | °C                     |                        |
| Level of drive                       | DL     | 10   | -         | 100  | μW                     | Recommended:1 to 100μW |
| Load capacitance                     | CL     | —    | 8         | —    | pF                     |                        |
| Motional resistance (ESR)            | R1     | -    | -         | 80   | Ω                      |                        |
| Motional capacitance                 | C1     | -    | 1.980     | -    | fF                     |                        |
| Motional inductance                  | L1     | -    | 22.209    | -    | mH                     |                        |
| Shunt capacitance                    | C0     | -    | 0.61      | -    | pF                     |                        |
| Frequency aging                      | f_age  | -1   | —         | 1    | x10 <sup>-6</sup> /yea | @+25°C, First year     |

**3.External dimensions**

(Unit: mm)

**4.Footprint(Recommended)**

(Unit: mm)

**5.Packing information**

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

The recommended code is "18"

X1E0003510014xx

| 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

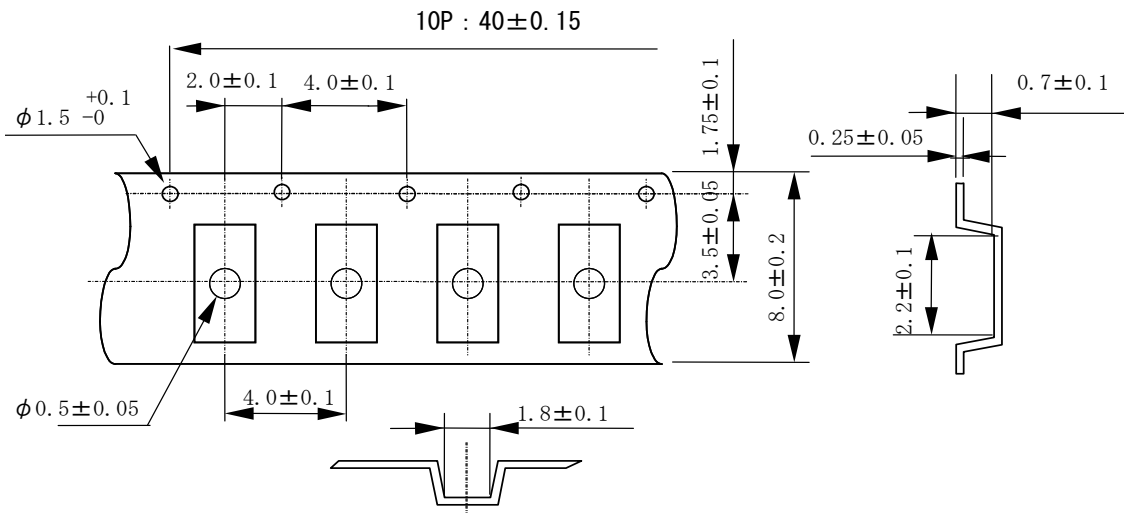
Subject to EIA-481 &amp; IEC-60286

## (1) Tape dimensions TE0804L

Material of the Carrier Tape : PS

Material of the Top Tape : PET+PE

Unit: mm

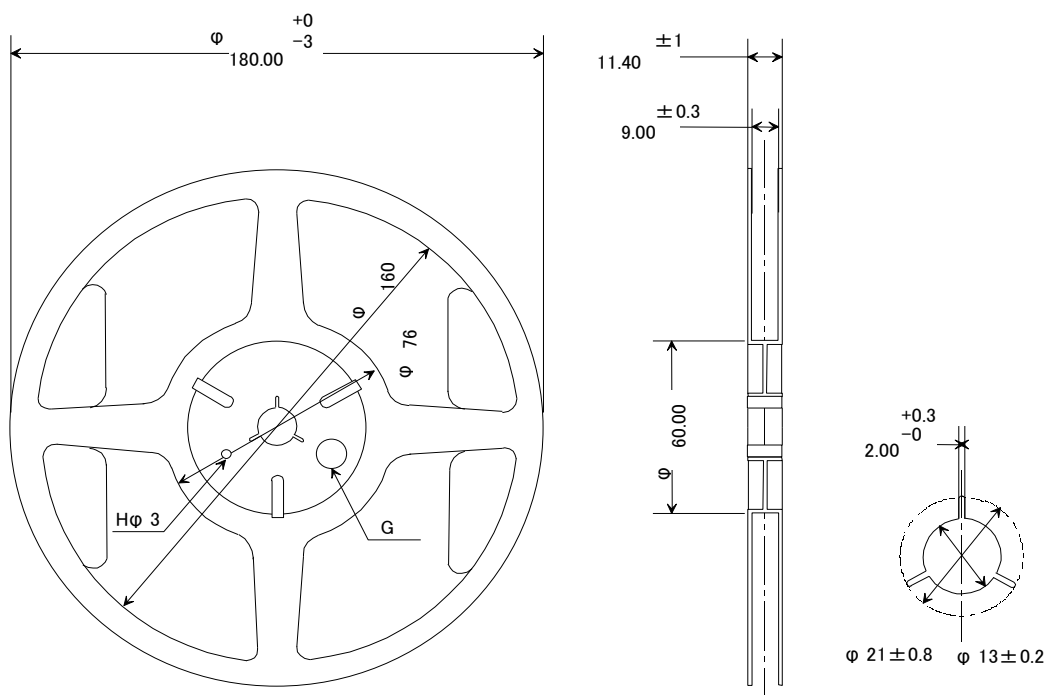


## (2) Reel dimensions

Center material : PS

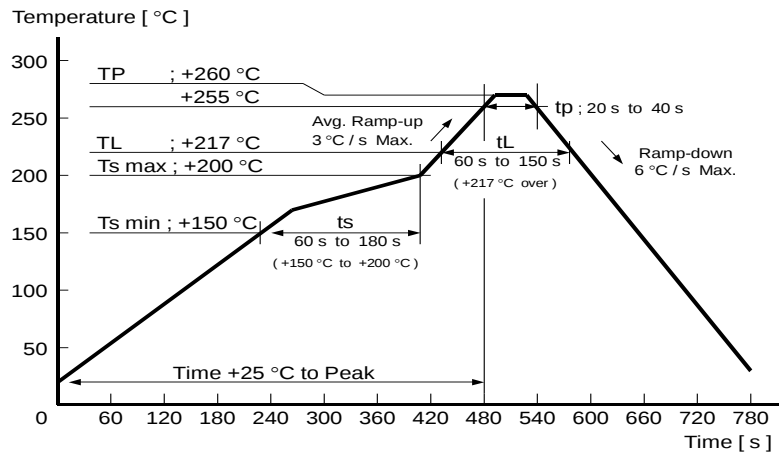
Material of the Reel : PS

Unit: mm



## 6.Reflow profile

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



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