

Product name FA2016AA 24.000000 MHz 8.0 +10.0-10.0

AEC-Q200 compliant

Product Number / Ordering code X1E000381A090xx

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**

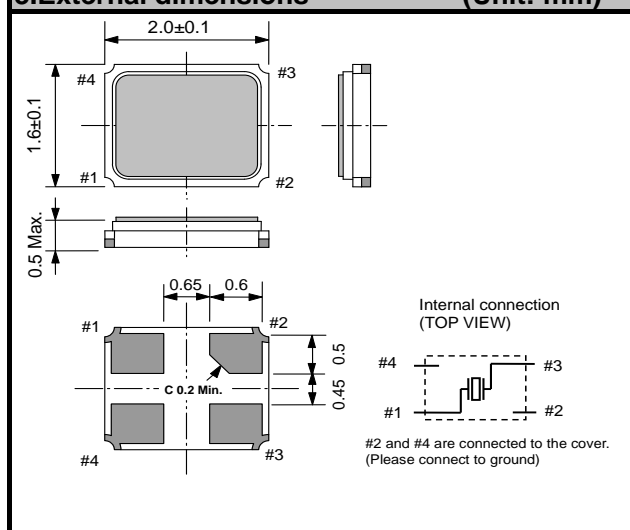
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions / Remarks
Storage temperature	T_stg	-40	-	+125	°C	Storage as single product
Operating temperature	T_use	-40	-	+125	°C	

**2.Specifications(characteristics)**

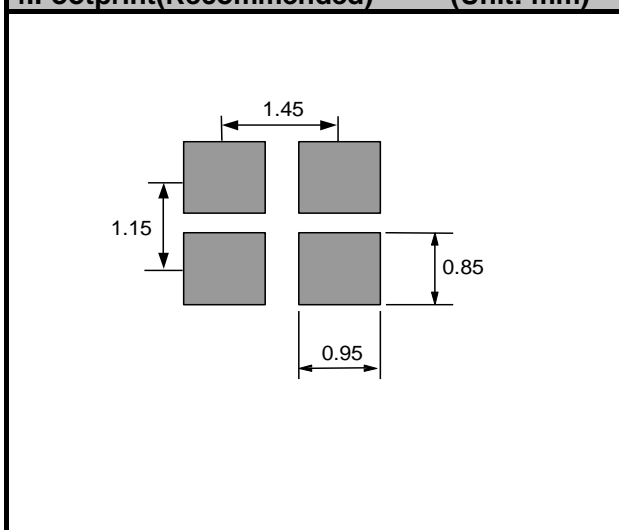
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions / Remarks
Nominal frequency	f_nom	-	24.000000	-	MHz	Fundamental
Frequency tolerance	f_tol	-10	-	+10	x 10 <sup>-6</sup>	@+25°C
Frequency Stability over temperature	f_tem	-30	-	+30	x 10 <sup>-6</sup>	-40°C to +105°C
Operating temperature	T_use	-40	-	+105	°C	
Level of drive	DL	1	100	200	μW	
Load capacitance	CL	-	8.0	-	pF	
Motional resistance (ESR)	R1	-	-	80	Ω	
Motional capacitance	C1	-	1.92	-	fF	
Motional inductance	L1	-	22.63	-	mH	
Shunt capacitance	C0	-	0.62	-	pF	
Frequency aging	f_age	-3	-	+3	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"

X1E000381A090xx

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

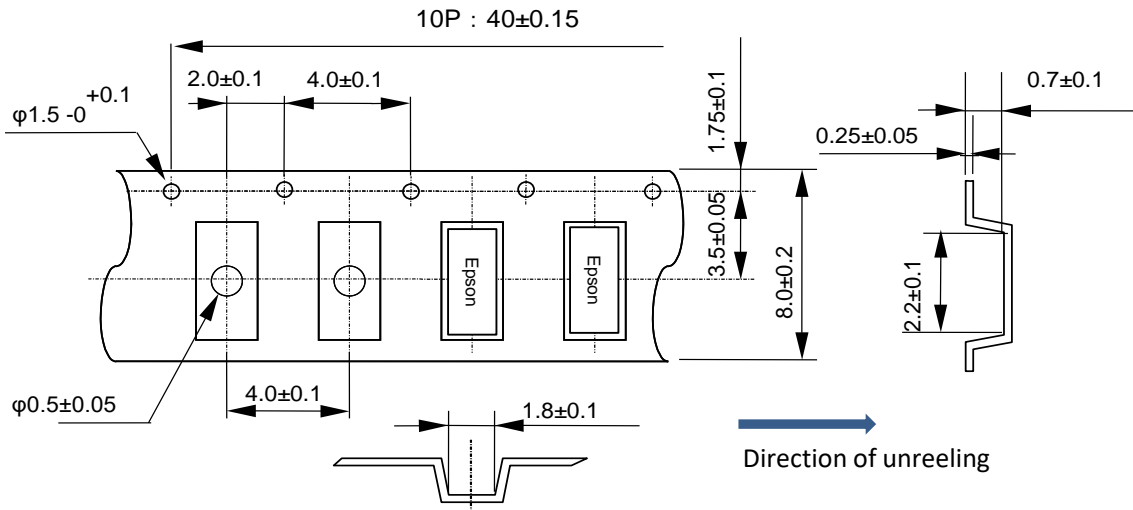
Subject to EIA-481 &amp; IEC-60286

## (1) Tape dimensions TE0804L

Material of the Carrier Tape : PS

Material of the Top Tape : PET+PE

Unit: mm

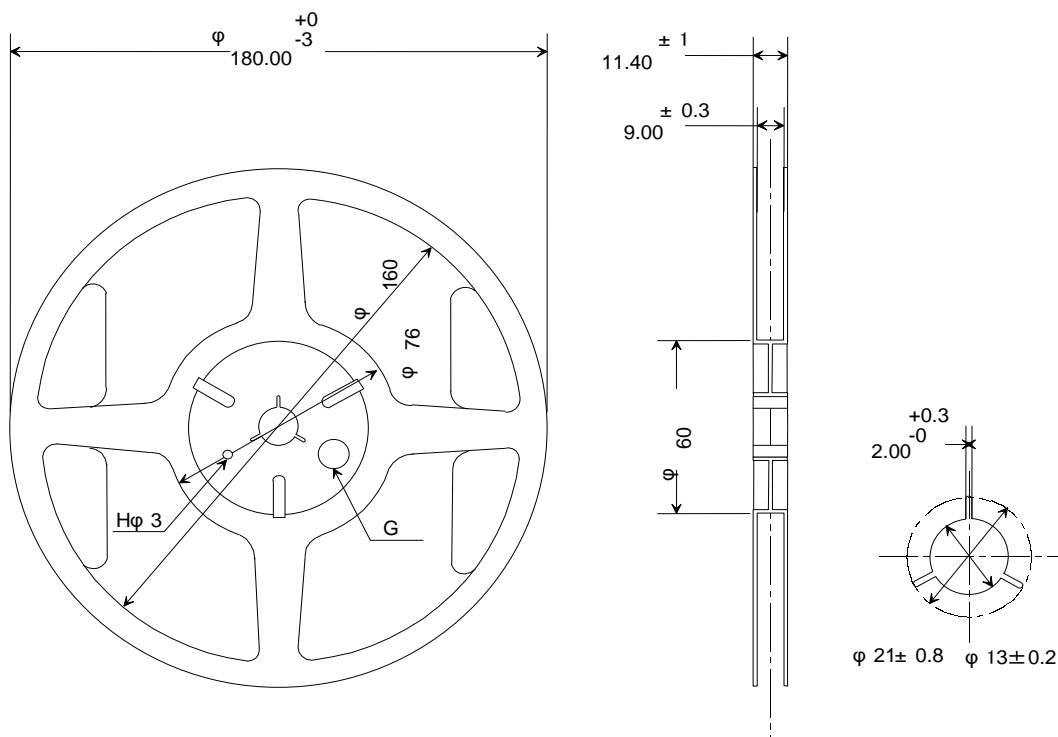


## (2) Reel dimensions

Center material : PS

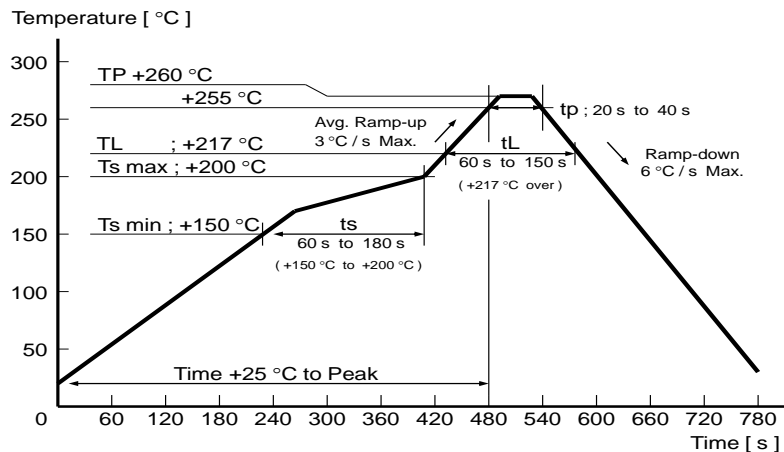
Material of the Reel : PS

Unit: mm



## 6. Reflow profile

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



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