

Product name FA2016AA 38.400000 MHz 9.0 +10.0-10.0

AEC-Q200 compliant

Product Number / Ordering code X1E000381A081xx

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

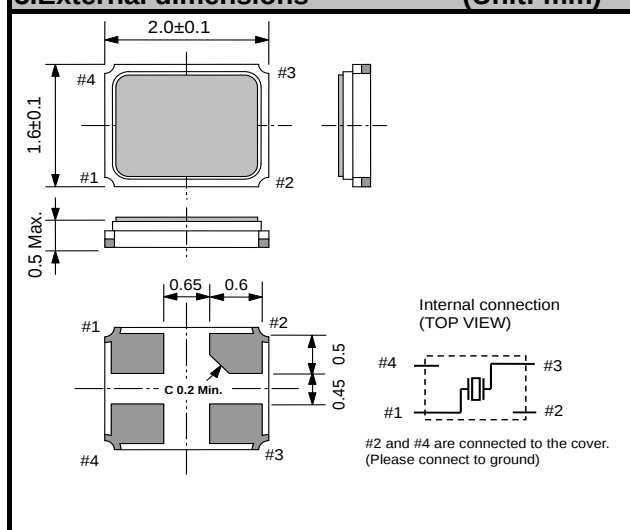
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions / Remarks
Storage temperature	T_stg	-40	-	+125	°C	Storage as single product
Operating temperature	T_use	-40	-	+125	°C	

2.Specifications(characteristics)

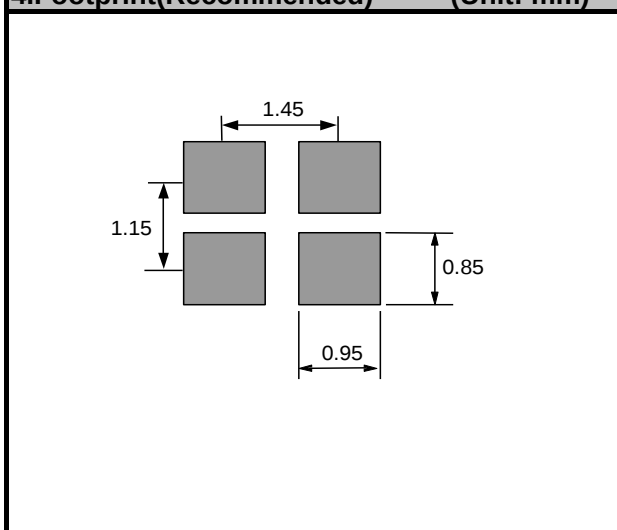
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions / Remarks
Nominal frequency	f_nom	-	38.400000	-	MHz	Fundamental
Frequency tolerance	f_tol	-10	-	+10	x 10 ⁻⁶	@+25°C
Frequency Stability over temperature	f_tem	-50	-	+50	x 10 ⁻⁶	-40°C to +125°C
Operating temperature	T_use	-40	-	+125	°C	
Level of drive	DL	1	100	200	μW	
Load capacitance	CL	-	9.0	-	pF	
Motional resistance (ESR)	R1	-	-	60	Ω	
Motional capacitance	C1	-	3.31	-	fF	
Motional inductance	L1	-	5.95	-	mH	
Shunt capacitance	C0	-	0.85	-	pF	
Frequency aging	f_age	-3	-	+3	x10 ⁻⁶ /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"

X1E000381A081xx

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		

Technical drawing of a 10P tape reel, showing dimensions and tolerances. The drawing includes a top view, a side view, and a cross-sectional view of the tape.

Top View Dimensions:

- Overall width: $10P : 40 \pm 0.15$
- Distance from left edge to first hole: $\phi 1.5 \begin{smallmatrix} +0.1 \\ -0 \end{smallmatrix}$
- Distance between holes: 2.0 ± 0.1 and 4.0 ± 0.1
- Distance from last hole to right edge: 4.0 ± 0.1
- Distance from left edge to first hole (alternative dimension): $\phi 0.5 \pm 0.05$
- Distance between holes (alternative dimension): 4.0 ± 0.1
- Distance from last hole to right edge (alternative dimension): 1.8 ± 0.1

Side View Dimensions:

- Overall height: 8.0 ± 0.2
- Distance from top edge to first hole: 1.75 ± 0.1
- Distance from top edge to second hole: 3.5 ± 0.05
- Distance from top edge to third hole: 5.0 ± 0.05
- Distance from top edge to fourth hole: 6.75 ± 0.05
- Distance from top edge to fifth hole: 8.0 ± 0.2

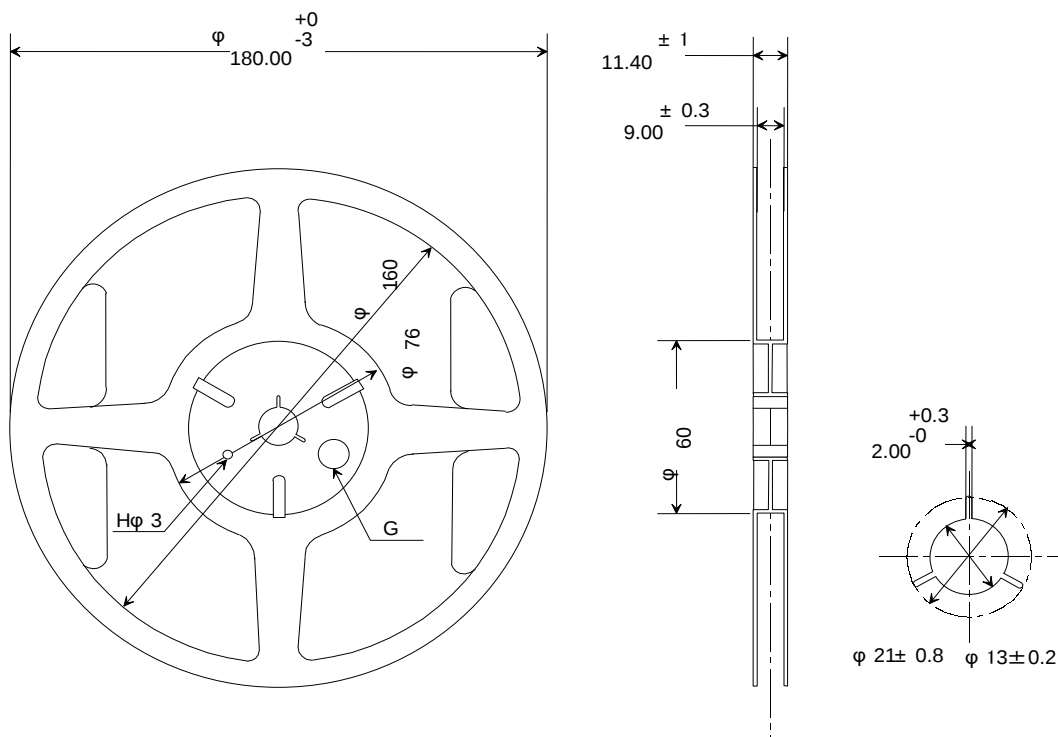
Cross-sectional View Dimensions:

- Distance from top edge to bottom edge: 2.2 ± 0.1
- Distance from top edge to bottom edge (alternative dimension): 0.25 ± 0.05
- Distance from top edge to bottom edge (alternative dimension): 0.7 ± 0.1

Other Features:

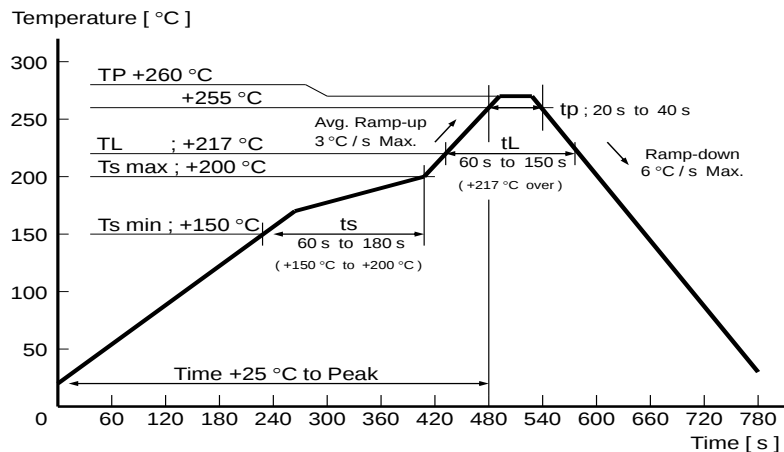
- Two "Epson" logos are visible on the tape.
- A blue arrow indicates the "Direction of unreeling".

Unit: mm



6. Reflow profile

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



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