

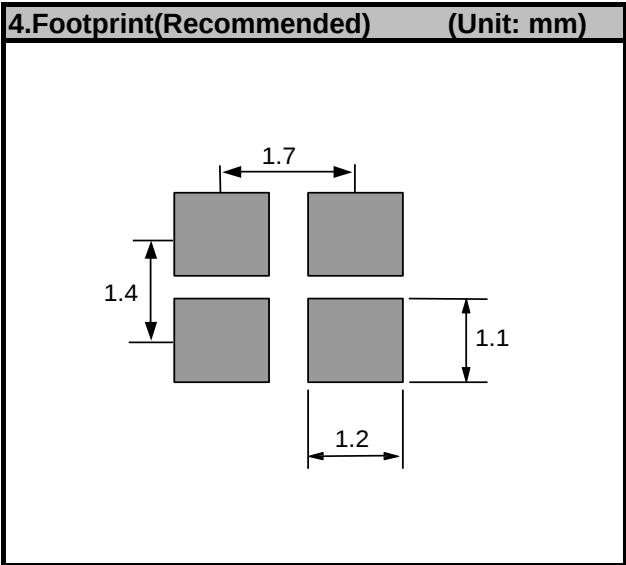
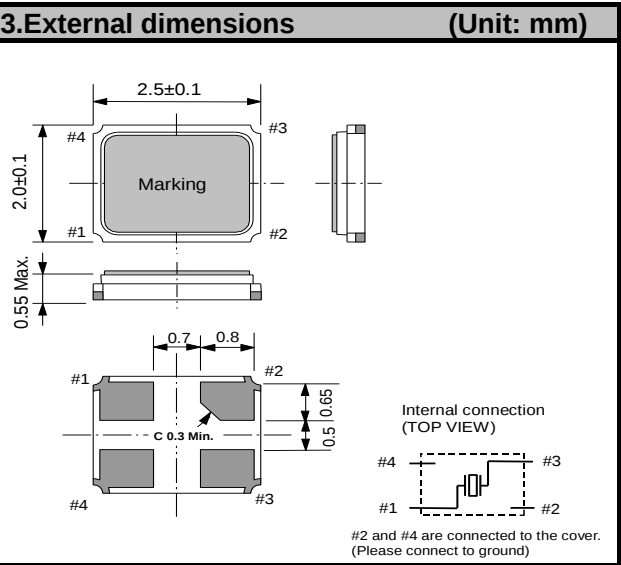
Product nameFA-20H16.000000 MHz 9.0 +10.0-10.0Product Number / Ordering codeQ24FA20H00122xxPlease refer to the 5.Packing information about xx (last 2 digits)

Pb free / Complies with EU RoHS directive

Reference weight Typ. 11 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	-10	-	+10	x 10 ⁻⁶	@+25°C
Frequency Stability over temperature	f_tem	-22	-	+22	x 10 ⁻⁶	-40°C to +85°C
Operating temperature	T_use	-40	-	+85	°C	
Level of drive	DL	10	-	100	μW	
Load capacitance	CL	—	9	—	pF	
Motional resistance (ESR)	R1	-	-	80	Ω	
Motional capacitance	C1	-	1.88	-	fF	
Motional inductance	L1	-	52.65	-	mH	
Shunt capacitance	C0	-	0.84	-	pF	
Frequency aging	f_age	-1	—	+1	x10 ⁻⁶ /yea	@+25°C, First year



5.Packing information

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

The recommended code is "18"

Q24FA20H00122xx

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		

(1) Tape dimensions TE0804L

Material of the Top Tape : PET+PE

Technical drawing of a metal strip cross-section. The main view shows a rectangular profile with rounded ends. Dimensions include a total width of $10P : 40 \pm 0.1$, a top flange thickness of 1.75 ± 0.1 , and a bottom flange thickness of 0.25 ± 0.05 . The overall height is 8.0 ± 0.2 . There are four circular holes along the length, with diameters $\phi 1.5^{+0.1}_{-0}$ and $\phi 1.05 \pm 0.05$. Two rectangular slots are labeled "MRAKIN". A blue arrow indicates the "Direction of unreeling".

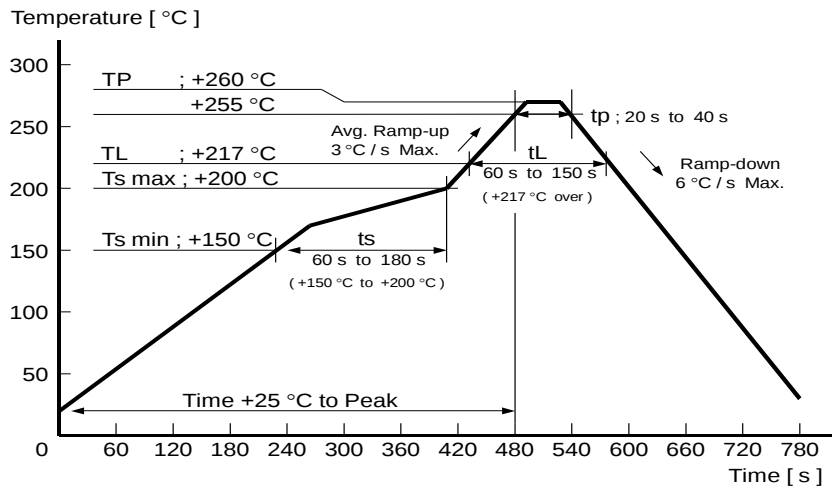
Center material : PS

Material of the Reel : PS

Technical drawing of a wheel with a central hub and five spokes. The drawing includes dimensions for the overall diameter (180.00), spoke length (160), hub diameter (76), and spoke thickness (3). It also shows a cross-section of the wheel with dimensions for the rim thickness (11.40), hub thickness (9.00), and spoke thickness (0.3). A detail view of the hub shows a diameter of 21.00 and a thickness of 13.00.

6. Reflow profile

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



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