MHz Range Crystal unit FA-238A

SEIKO EPSON CORPORATION

Product name FA-238A 26.000000 MHz 10.0 +15.0-15.0 AEC-Q200 compliant

Product Number / Ordering code X1E0003410516xx

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

Pb free / Complies with EU RoHS directive

Reference weight Typ. 16 mg

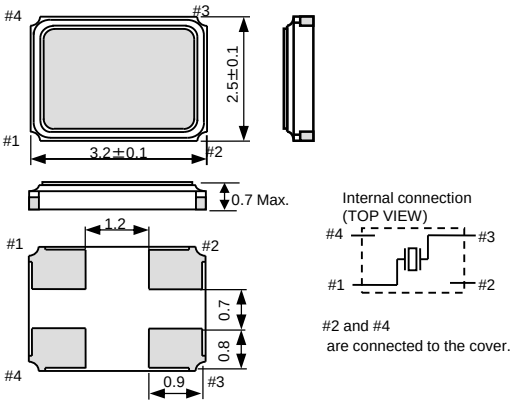
1.Absolute maximum ratings

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

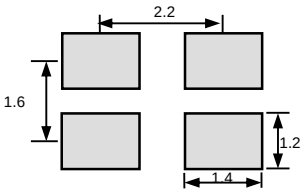
2.Specifications(characteristics)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions / Remarks
Nominal frequency	f_nom	-	26.000000	-	MHz	Fundamental
Frequency tolerance	f_tol	-15	-	+15	x 10^{-6}	@+25ºC
Frequency Stability over temperature	f_tem	-50	-	+50	x 10^{-6}	-40ºC to +125ºC
Operating temperature	T_use	-40	-	+125	ºC	
Level of drive	DL	1	100	200	µW	
Load capacitance	CL	-	10	-	pF	
Motional resistance (ESR)	R1	-	-	50	Ω	
Motional capacitance	C1	-	3.23	-	fF	
Motional inductance	L1	-	11.60	-	mH	
Shunt capacitance	C0	-	1.08	-	pF	
Frequency aging	f_age	-5	-	+5	x10^{-6} /yea	@+25ºC, 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 "17"

X1E0003410516xx

Code	Condition	Code	Condition
01	Any Q'ty vinyl bag(Tape cut)	14	1000pcs / Reel
11	Any Q'ty / Reel	15	2000pcs / Reel
12	250pcs / Reel	00	3000pcs / Reel
13	500pcs / Reel	17	4000pcs / Reel

[2] Taping specification

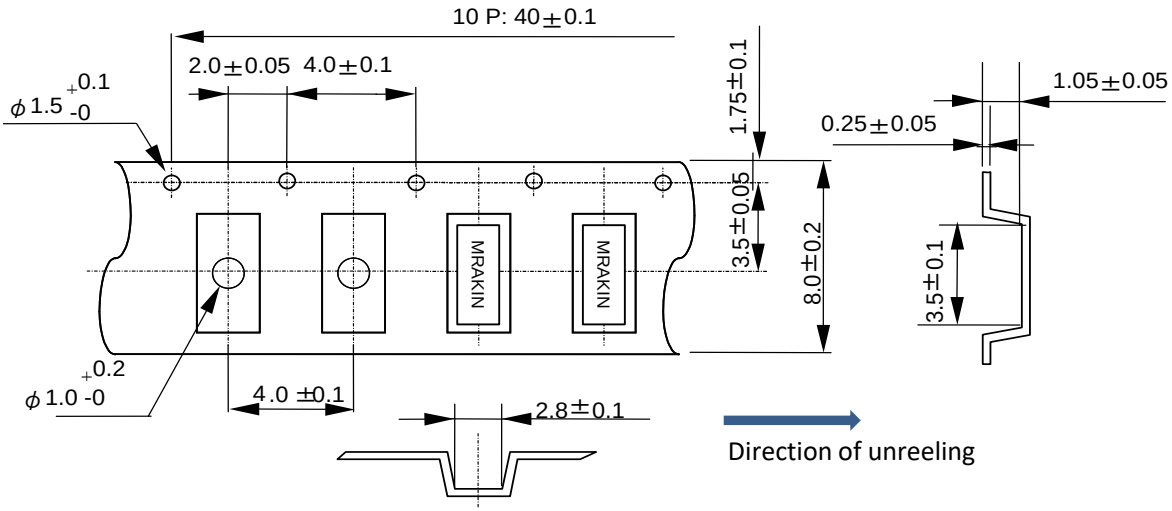
Subject to EIA-481 & IEC-60286

(1) Tape dimensions TE0804L

Material of the Carrier Tape : PS

Material of the Top Tape : PET+PE

Unit: mm

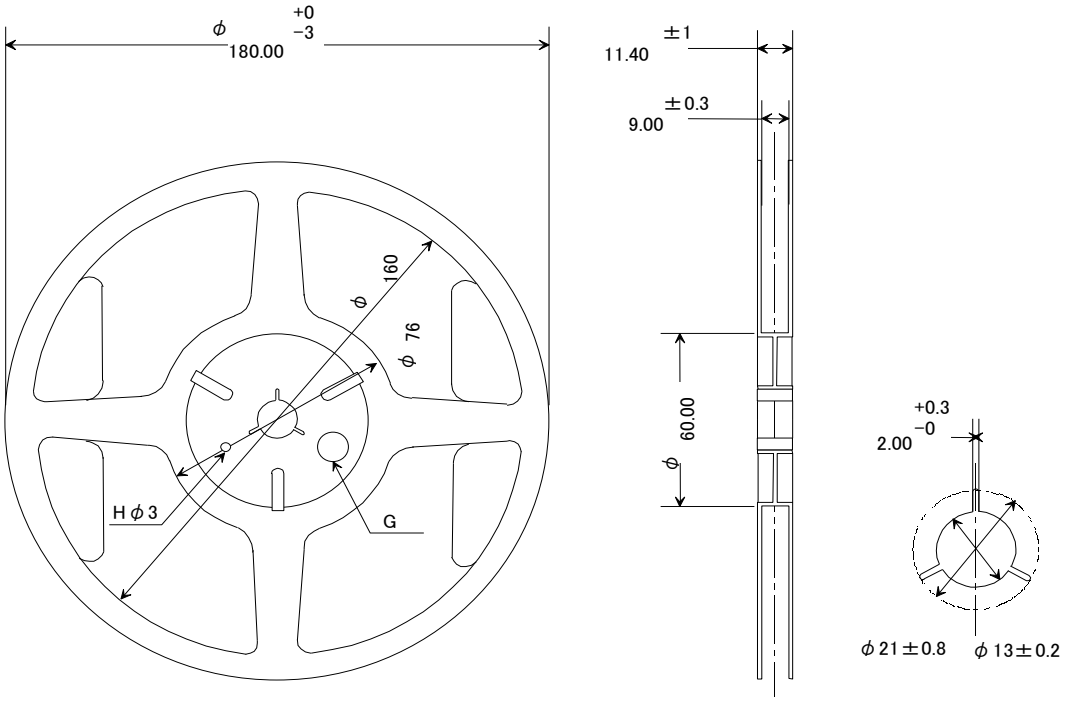


(2) Reel dimensions

Center material : PS

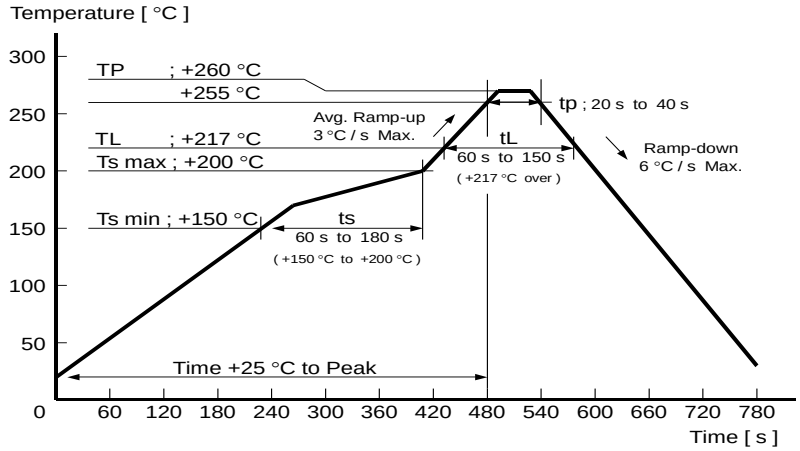
Material of the Reel : PS

Unit: mm



6.Reflow profile

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



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