MHz Range Crystal unit TSX-3225

Product name TSX-3225 24.000000 MHz 9.0 +10.0-10.0 Product Number / Ordering code X1E0000210202xx

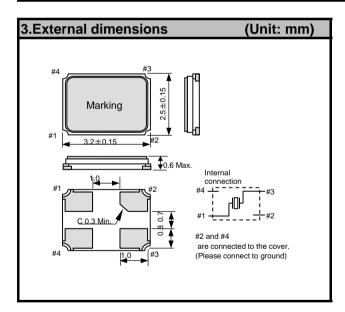
Please refer to the 5.Packing information about xx (last 3 digits)

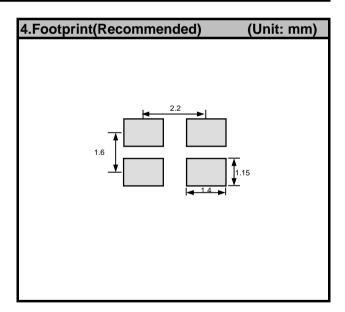
Pb free / Complies with EU RoHS directive

Reference weight Typ. 17 mg

1.Absolute maximum ratings							
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks	
Storage temperature	T_stg	-40	-	+125	°C	Storage as single product	

2.Specifications(characteristics)							
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks	
Nominal frequency	f_nom	_	24.000000	_	MHz	Fundamental	
Frequency tolerance	f_tol	-10	-	10	x 10- ⁶	@+25°C	
Frequency Stability over temperature	f_tem	-15	-	15	x 10 ⁻⁶	-40°C to 85°C	
Operating temperature	T_use	-40	-	+85	°C		
Level of drive	DL	10	100	200	μW	Recommended:1 to 100µW	
Load capacitance	CL	_	9	=	pF		
Motional resistance (ESR)	R1	-	-	40	Ω		
Motional capacitance	C1	-	3.480	-	fF		
Motional inductance	L1	-	12.637	-	mH		
Shunt capacitance	C0	-	1.27	-	pF		
Frequency aging	f_age	-1	_	1	x10 ⁻⁶ /yea	@+25°C, First year	





5.Packing	informat	ion				
[1]Product	[1]Product number last 2 digits code (xx) description			The recommended code is "17"		
	X1E0000	210202xx				
	Code	Condition	Code	Condition		
	01	Any Q'ty vinyl bag(Tape cut)	00	2000pcs / Reel		
	11	Any Q'ty / Reel	16	3000pcs / Reel		
	12	250pcs / Reel	17	4000pcs / Reel		
	14	1000pcs / Reel				

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[2] Taping specification

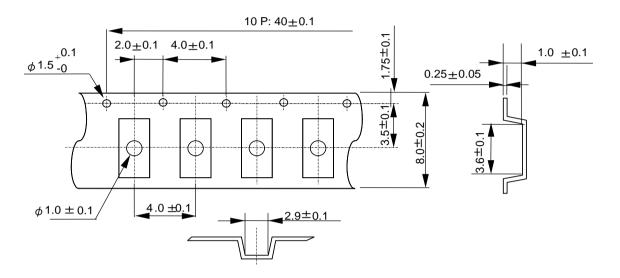
Subject to EIA-481 & IEC-60286

(1) Tape dimensions TE0804L

Material of the Carrier Tape : PS

Material of the Top Tape : PET+PE

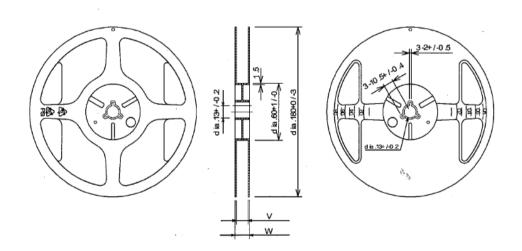
Unit: mm



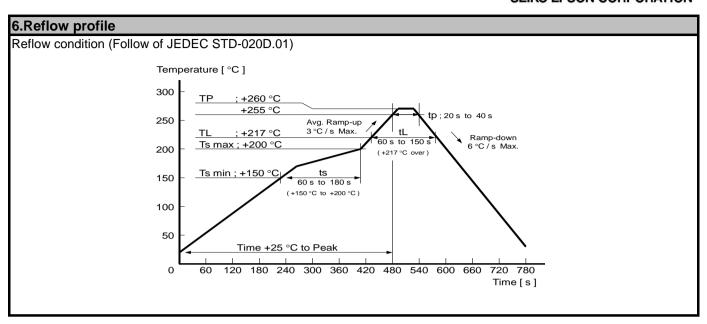
(2) Reel dimensions

Center material : PS Material of the Reel : PS

Unit: mm



V(mm)	W(mm)
9.0+/-0.3	11.4+/-1



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