#### Product name TSX-3225 32.000000 MHz 18.0 +10.0-10.0 Product Number / Ordering code

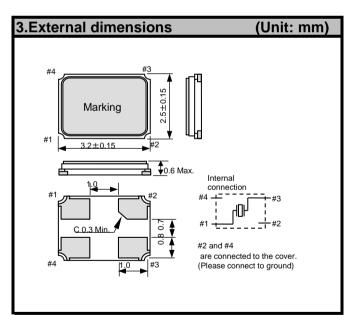
# X1E0000211108xx

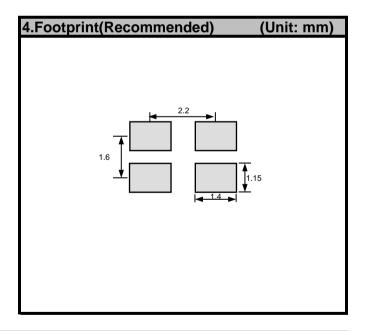
Please refer to the 5.Packing information about xx (last 2 digits)

Pb free / Complies with EU RoHS directive 

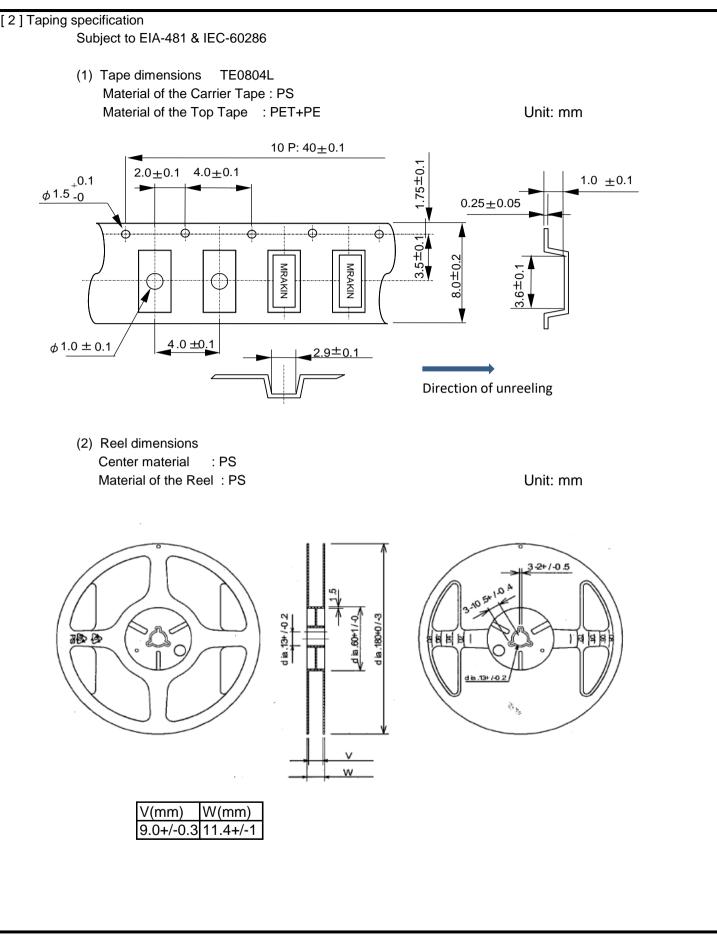
Reference weight Typ. 17 mg									
1.Absolute maximum ratings									
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks			
Storage temperature	T_stg	-40	-	+125	°C	Storage as single product			
Operating temperature	T_use	-40	-	+105	°C				

2.Specifications(characteristics)								
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks		
Nominal frequency	f_nom	—	32.000000	-	MHz	Fundamental		
Frequency tolerance	f_tol	-10	-	+10	x 10- <sup>6</sup>	@+25°C		
Frequency Stability over temperature	f_tem	-20	-	+20	x 10 <sup>-6</sup>	-40ºC to +85ºC		
Operating temperature	T_use	-40	-	+85	°C			
Level of drive	DL	10	100	200	μW			
Load capacitance	CL	_	18	_	pF			
Motional resistance (ESR)	R1	-	-	40	Ω			
Motional capacitance	C1	-	5.55	-	fF			
Motional inductance	L1	-	4.46	-	mH			
Shunt capacitance	C0	-	1.50	-	pF			
Frequency aging	f_age	-1	—	+1	x10 <sup>-6</sup> /yea	@+25°C, First year		



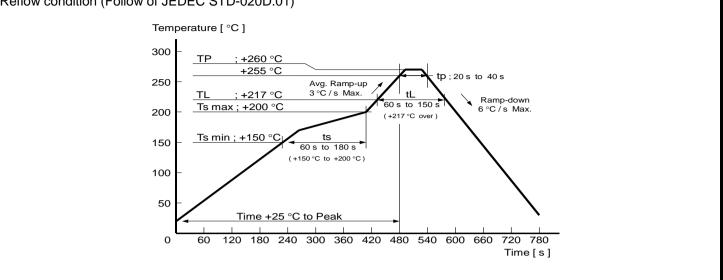


#### 5.Packing information [1] Product number last 2 digits code (xx) description The recommended code is "17" X1E0000211108xx Condition Condition Code Code 01 Any Q'ty vinyl bag(Tape cut) 00 2000pcs / Reel Any Q'ty / Reel 16 3000pcs / Reel 11 12 250pcs / Reel 17 4000pcs / Reel 1000pcs / Reel 14



### 6.Reflow profile

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



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