# Product name TSX-3225 24.000000 MHz 18.0 +10.0-10.0 Product Number / Ordering code X1E0000210264xx

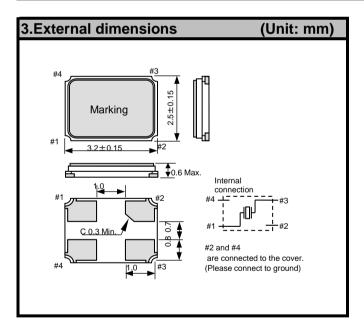
Please refer to the 5.Packing information about xx (last 2 digits)

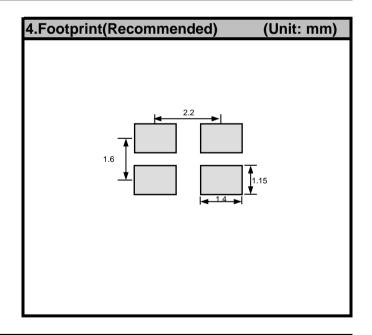
Pb free / Complies with EU RoHS directive

erence weight Typ. 17 m	۱g
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1.Absolute maximum ratings									
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks			
Storage temperature	T_stg	-40	I	+125	°C	Storage as single product			
Operating temperature	T_use	-40	I	+105	°C				

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- <sup>6</sup>	@+25°C		
Frequency Stability over temperature	f_tem	-18	-	+18	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	-	3.48	-	fF			
Motional inductance	L1	-	12.64	-	mH			
Shunt capacitance	C0	-	1.27	-	pF			
Frequency aging	f_age	-1	_	+1	x10 <sup>-6</sup> /yea	@+25°C, First year		



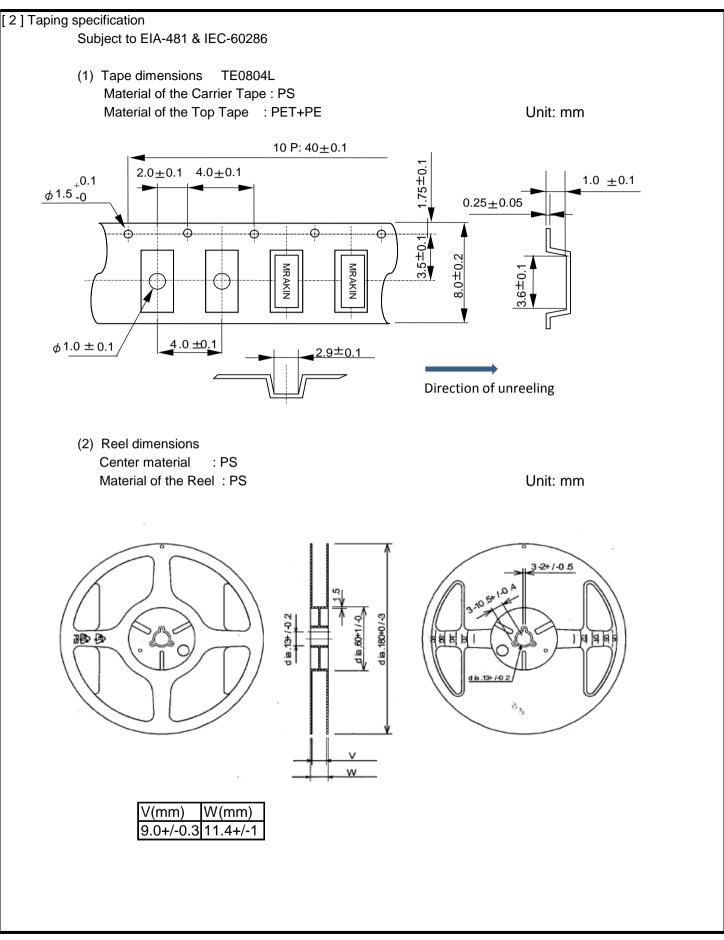


The recommended code is "17"

## 5.Packing information

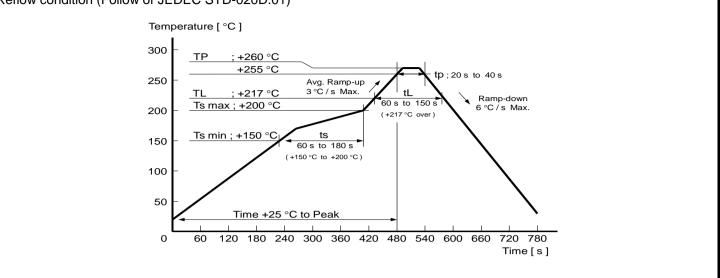
[ 1 ]Product number last 2 digits code (xx) description

X1E0000210264xx Condition Condition Code Code Any Q'ty vinyl bag(Tape cut) 2000pcs / Reel 01 00 11 Any Q'ty / Reel 16 3000pcs / Reel 12 250pcs / Reel 17 4000pcs / Reel 14 1000pcs / Reel



## 6.Reflow profile

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



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- / Submarine transmitters
- / Power stations and related
- / Fire work equipment and security equipment
- / Traffic control equipment
- / And others requiring equivalent reliability.

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