Product name TSX-3225 30.00000 MHz 11.0 +10.0-10.0 Product Number / Ordering code X1E0000211010xx

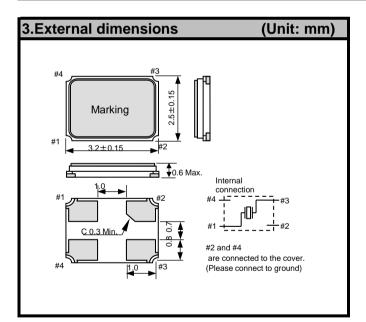
Please refer to the 5.Packing information about xx (last 2 digits)

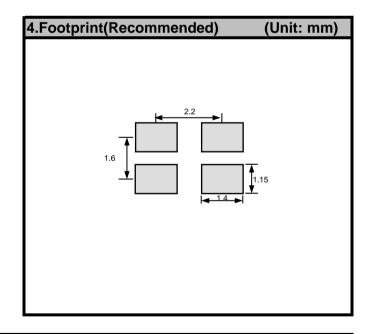
Pb free / Complies with EU RoHS directive

Reference weight Typ. 17 mg	
-----------------------------	--

1.Absolute maximum ratings									
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks			
Storage temperature	T_stg	-40	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		30.000000	_	MHz	Fundamental		
Frequency tolerance	f_tol	-10	-	+10	x 10- ⁶	@+25°C		
Frequency Stability over temperature	f_tem	-20	-	+20	x 10⁻ ⁶	-40ºC to +85ºC		
Operating temperature	T_use	-40	-	+85	°C			
Level of drive	DL	10	100	200	μW			
Load capacitance	CL	_	11	—	pF			
Motional resistance (ESR)	R1	-	-	40	Ω			
Motional capacitance	C1	-	4.55	-	fF			
Motional inductance	L1	-	6.19	-	mH			
Shunt capacitance	C0	-	1.27	-	pF			
Frequency aging	f_age	-1	_	+1	x10 ⁻⁶ /yea	@+25ºC, First year		



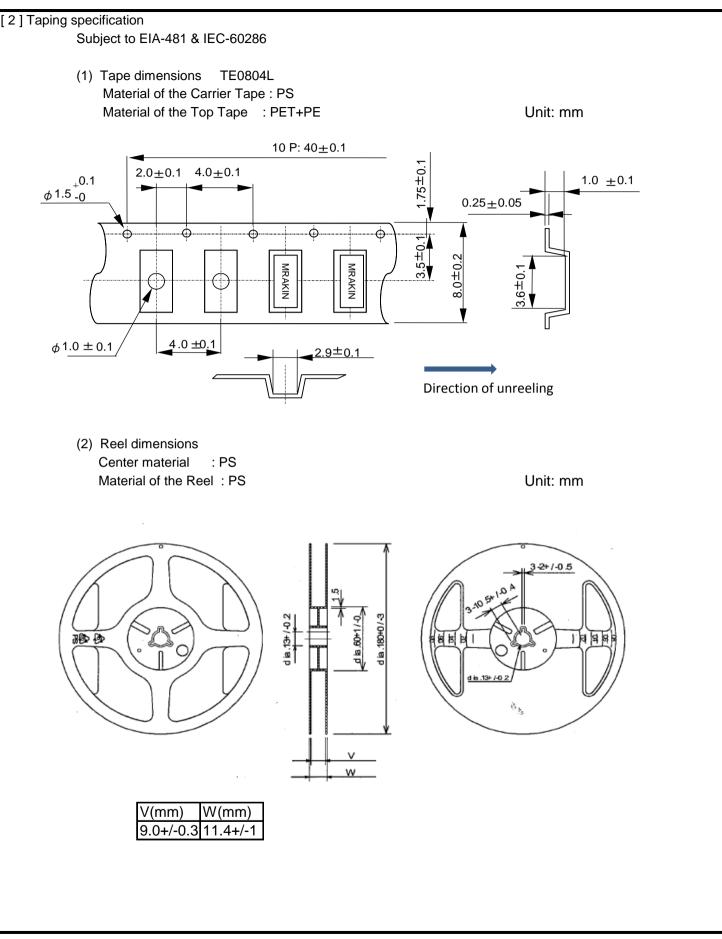


The recommended code is "17"

5.Packing information

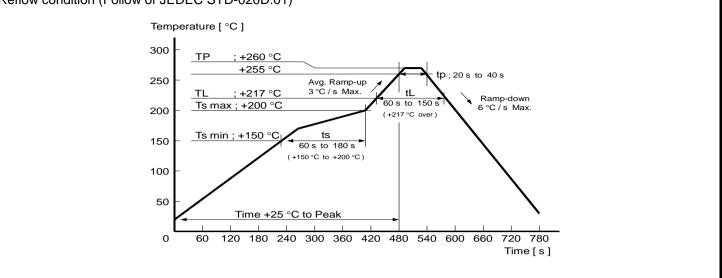
[1]Product number last 2 digits code (xx) description

X1E0000211010xx Condition Condition Code Code Any Q'ty vinyl bag(Tape cut) 2000pcs / Reel 01 00 3000pcs / Reel 11 Any Q'ty / Reel 16 12 250pcs / Reel 17 4000pcs / Reel 14 1000pcs / Reel



6.Reflow profile

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



7.Notice

- · This material is subject to change without notice.
- Any part of this material may not be reproduced or duplicated in any form or any means without the written permission of Seiko Epson.
- The information about applied data, circuitry, software, usage, etc. written in this material is intended for reference only.

Seiko Epson does not assume any liability for the occurrence of customer damage or infringing on any patent or copyright of a third party.

This material does not authorize the licensing for any patent or intellectual copyrights.

- When exporting the products or technology described in this material, you should comply with the applicable export control laws and regulations and follow the procedures required by such laws and regulations.
- You are requested not to use the products (and any technical information furnished, if any) for the development and/or manufacture of weapon of mass destruction or for other military purposes. You are also requested that you

would not make the products available to any third party who may use the products for such prohibited purposes.

• These products are intended for general use in electronic equipment. When using them in specific applications that require

extremely high reliability, such as the applications stated below, you must obtain permission from Seiko Epson in advance.

- / Space equipment (artificial satellites, rockets, etc.)
- / Transportation vehicles and related (automobiles, aircraft, trains, vessels, etc.)
- / Medical instruments to sustain life
- / Submarine transmitters
- / Power stations and related
- / Fire work equipment and security equipment
- / Traffic control equipment
- / And others requiring equivalent reliability.

· All brands or product names mentioned herein are trademarks and/or registered trademarks of their respective.

Contact us

http://www5.epsondevice.com/en/contact/