

Product name TSX-3225 20.000000 MHz 8.0 +10.0-10.0

Product Number / Ordering code X1E0000210741xx

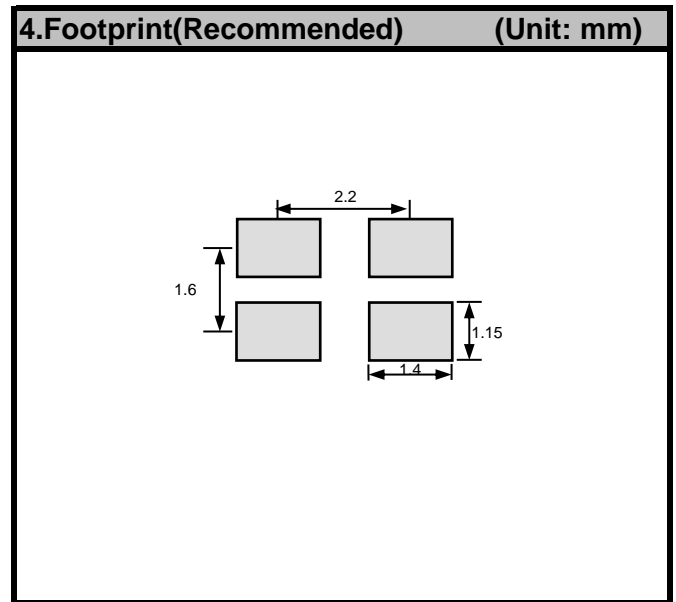
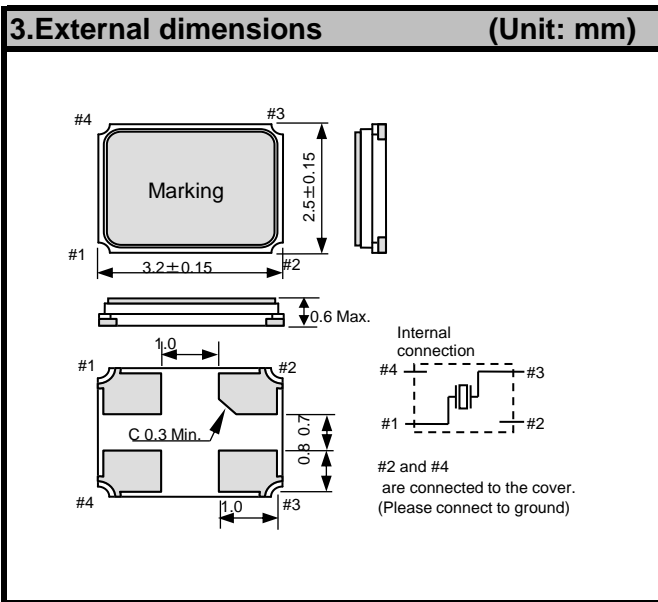
Please refer to the 5.Packing information about xx (last 2 digits)

Pb free / Complies with EU RoHS directive

Reference weight Typ. 17 mg

1.Absolute maximum ratings						
Parameter	Symbol	Min.	Typ.	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.	Typ.	Max.	Unit	Conditions / Remarks
Nominal frequency	f_nom	—	20.000000	—	MHz	Fundamental
Frequency tolerance	f_tol	-10	-	+10	x 10 ⁻⁶	@+25°C
Frequency Stability over temperature	f_tem	-10	-	+10	x 10 ⁻⁶	-20°C to +85°C
Operating temperature	T_use	-20	-	+85	°C	
Level of drive	DL	10	100	200	μW	
Load capacitance	CL	—	8	—	pF	
Motional resistance (ESR)	R1	-	-	60	Ω	
Motional capacitance	C1	-	2.58	-	fF	
Motional inductance	L1	-	24.54	-	mH	
Shunt capacitance	C0	-	0.98	-	pF	
Frequency aging	f_age	-1	—	+1	x10 ⁻⁶ /yea	@+25°C, First year



5.Packing information

[1] Product number last 2 digits code (xx) description The recommended code is "17"

X1E0000210741xx

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		

6.Reflow profile

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



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