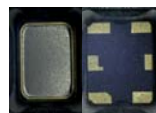


TX25SA Series

TCXO, 2.5 x 2.0mm, Clipped sine wave



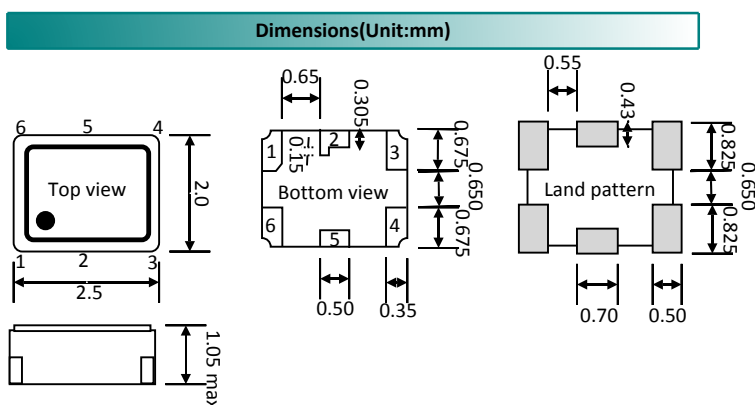
From ± 0.5 ppm stability over -30°C to 85°C



Parameters		Specification	Remarks
Frequency range	F_nom	8.0MHz ~ 50.0MHz	Limited frequencies available
Supply voltage	Vcc	1.8V, 2.4V, 2.8V, 3.0V	$\pm 5\%$ tolerance
Initial frequency tolerance	F_tol	± 1.0 ppm max	At $+25^{\circ}\text{C}$
Frequency stability	vs Temperature	F_stb ± 0.5 ppm max	Table 1
	vs Load	F_load ± 0.2 ppm max.	$\pm 10\%$ load condition change
	vs Voltage	F_Vcc ± 0.2 ppm max.	$\pm 5\%$ input voltage change
	vs Aging	F_age ± 1.0 ppm max	1 year
	vs Reflow	± 1.0 ppm max.	2 times
Frequency stability slope ($-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$)		± 0.1 ppm/ $^{\circ}\text{C}$ max	Every $+2^{\circ}\text{C}$
Frequency stability slope ($-30^{\circ}\text{C} \sim -20^{\circ}\text{C}$)		± 0.2 ppm/ $^{\circ}\text{C}$ max	Every $+2^{\circ}\text{C}$
Frequency stability slope ($+70^{\circ}\text{C} \sim +85^{\circ}\text{C}$)		± 0.2 ppm/ $^{\circ}\text{C}$ max	Every $+2^{\circ}\text{C}$
Operating temperature range ($^{\circ}\text{C}$)	Topr	$-30^{\circ}\text{C} \sim +85^{\circ}\text{C}$	Table 1
Storage temperature ($^{\circ}\text{C}$)	Tstg	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$	
Output wave form		Clipped sine wave	DC coupled
Output voltage level		0.8V p-p (min.)	
Output Load		10K Ω //10pF	$\pm 10\%$ tolerance
Current consumption	Icc	1.5mA max.	10K Ω //10pF $\pm 10\%$
Start-up time	T_str	2.0ms max.	Reach 90% amplitude at $+25^{\circ}\text{C}$
Moisture sensitive level	MSL	1	
ESD sensitive device		Yes	

Please leave product at room temperature for 2 hrs or more after reflow.

Table 1 Frequency stability vs Temperature						
Temp. ($^{\circ}\text{C}$)	Stability in ppm					
	± 0.5	± 1.0	± 1.5	± 2.0	± 2.5	± 3.0
0°C to 50°C	✓	✓	✓	✓	✓	✓
-10°C to 60°C	✓	✓	✓	✓	✓	✓
-20°C to 70°C	✓	✓	✓	✓	✓	✓
-30°C to 75°C	✓	✓	✓	✓	✓	✓
-30°C to 85°C	✓	✓	✓	✓	✓	✓



- Pad 1 : Ground
- Pad 2 : NC
- Pad 3 : Ground
- Pad 4 : Output
- Pad 5 : NC
- Pad 6 : Supply voltage

TX25SA Series

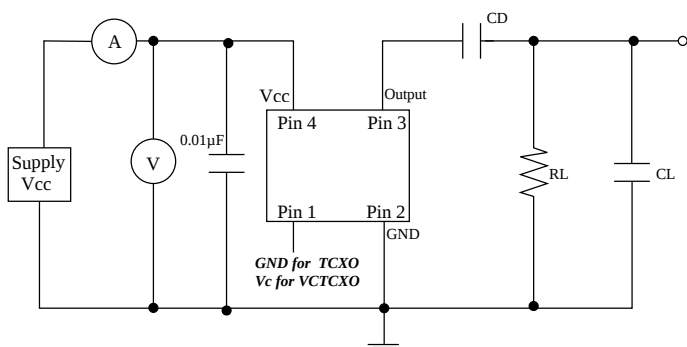
TCXO, 2.5 x 2.0mm, Clipped sine wave



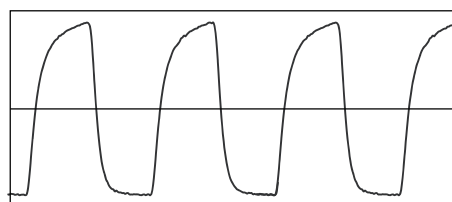
TCXO/VC-TCXO part number generation									
TX25SA	2600	M	E	X	B	X	Z	L	-PF
ACT series Code	Frequency (MHz) Ex. 26.00MHz = 2600 8.00MHz = 0800 14.7456MHz = 1474	Temp. stability (±ppm)	Supply voltage (V)	Operating temp. range (°C)	Output wave	Electrical tuning (±ppm)	Duty Cycle	Tape & Reel	RoHS Code
TCXO = TX25SA	< 100MHz First 4 digit of frequency > 100MHz First 5 digit of frequency	0.5 = R 1.0 = P 1.5 = O 2.0 = N 2.5 = M 3.0 = L	1.8V = D 2.4V = J 2.8V = H 3.0V = E	0 ~ 50 = D -10 ~ +60 = F -20 ~ +70 = B -30 ~ +75 = W -30 ~ +85 = X	CSW = B	None = X	Not specified = Z	Loose = L 1000 = C 3000 = D	-PF

Note: It is important to suffix the above part number with full frequency required to give a completed part number as illustrated below.
Full Example part number : **TX25SA2600MEXBXL-PF [26MHz]**, **TX25SA1474MEXBXL-PF [14.7456MHz]**

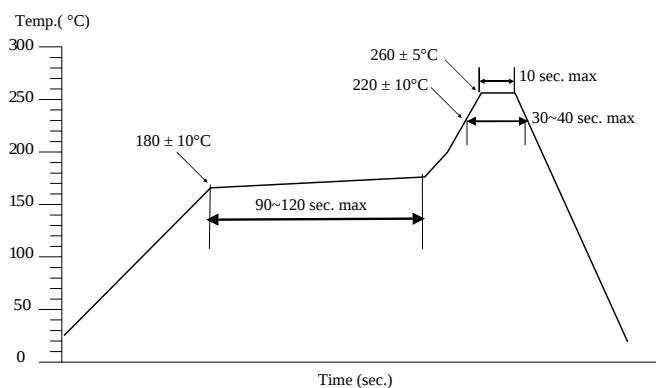
Test circuit



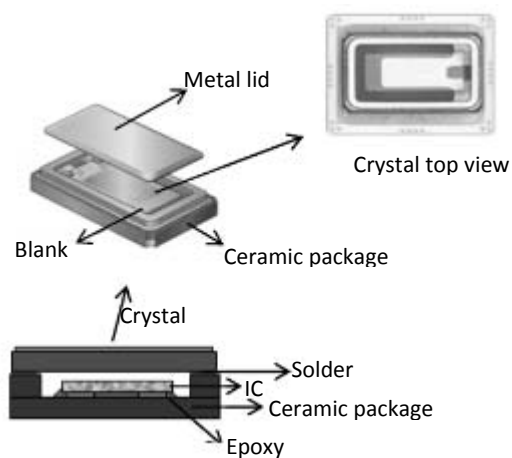
Clipped sine waveform



Solder reflow profile



TCXO construction



Drawing control: (Internal use only)
Commodity code: 854370 90 99
Issue number : 1
Date : 24062016
Internal reference : C1f

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Specifications subject to change without notification