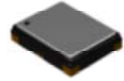


# (V)TX30S3A Series

Stratum 3, VC-TCXO, 3.2 x 2.5mm, Clipped Sinewave



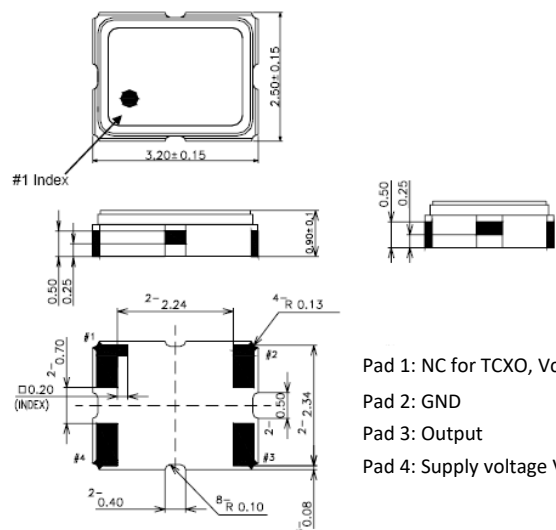
Surface mount device  
REACH, RoHS compliant  
Applications: Femtocell, Nanocell, Precision instruments



Parameters		Specification		Remarks
Frequency range	F_nom	9.6MHz ~ 50.0MHz		
Supply voltage	Vcc	3.0V, 3.3V		Vcc±5%
Frequency stability (overall, 20 years)		±4.6ppm		Including initial tolerance, freq. stability over temperature, load change, Vcc change, 20 year aging and reflow soldering.
Initial frequency tolerance	F_tol	±1.0ppm		At +25°C±2°C, within 30 days after ex-works
Frequency stability	vs Temperature	F_stb	±0.28ppm, ±0.5ppm	Over -40°C ~ +85°C, fref=(fmax+fmin)/2
	vs Load	F_load	±0.1ppm max	±5% load condition change
	vs Voltage	F_Vcc	±0.1ppm max	±5% input voltage change
	vs Day Aging	F_age	±0.02ppm/year max	At +25°C and after 1h of operation
	vs Year aging		±1.0ppm/year max	
Operating temperature range (°C)	Topr	-20°C ~ +70°C, -40°C ~ +85°C		
Storage temperature (°C)	Tstg	-55°C ~ +105°C		
Output wave form		Clipped sine wave(CSW)		
Output load		10KΩ//10pF		
Output voltage level (CSW)		0.8V p-p (min)		
Current consumption	Icc	5.0mA max		
<b>VC-TCXO option only</b>				
Control Voltage	Vc	1.5V ± 1.0V		
Frequency tuning (ppm)		±10.0ppm ~ ±15.0ppm		For custom specification please enquire
Linearity/Slope polarity		±10.0% max/Positive slope		Positive voltage for positive frequency shift

Phase noise (10.0MHz typical)	dBc/Hz typical
10Hz	-90
100Hz	-120
1kHz	-140
10kHz	-145
100kHz	-148

### Dimensions (mm)



- Pad 1: NC for TCXO, Vc for VCTCXO
- Pad 2: GND
- Pad 3: Output
- Pad 4: Supply voltage Vcc

# (V)TX30S3A Series

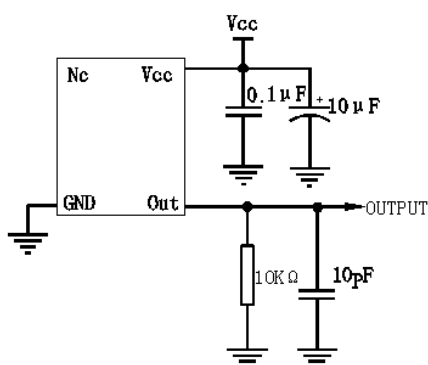
Stratum 3, VC-TCXO, 3.2 x 2.5mm, Clipped sine wave



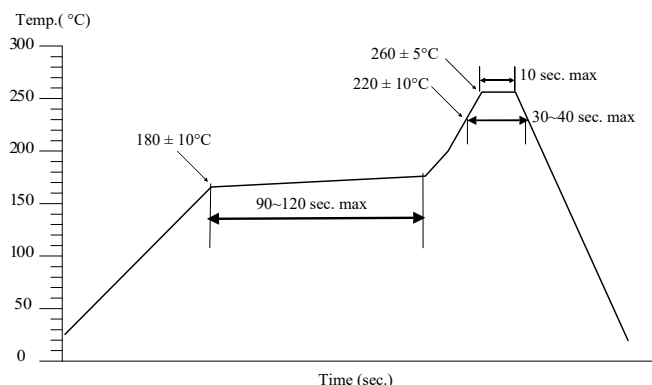
TCXO part number generation									
TX30S3A	2600	W	B	I	B	X	Z	L	-PF
ACT series Code	Frequency (MHz) Ex. 26.00MHz	Temp. stability (±ppm)	Supply voltage (V)	Operating temp. range (°C)	Output wave	Electrical tuning (±ppm)	Duty Cycle (%/%)	Tape & Reel	RoHS Code
TCXO = TX30S3A VCTCXO = VTX30S3A	26MHz = 2600 8MHz = 0800  < 100MHz First 4 digit of frequency  > 100MHz First 5 digit of frequency	0.28 = W 0.5 = R	3.0V = E 3.3V = B	-20 ~ +70 = B -40 ~ +85 = I	CSW = B	<u>For TCXO</u> None = X  <u>For VCTCXO</u> ±10 ~ ±15ppm = Y	<u>For CSW</u> Not specified = Z	Loose = L 1000 = C	-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 : **TX30S3A2600WBIBXZL-PF [26MHz]**, **VTX30S3A1474WBIBXZL-PF [14.7456MHz]**

### CSW test circuit



### Solder reflow profile



Drawing control: (Internal use only)  
Commodity code: 854370 90 99  
Issue number : N1  
Date : 14/10/2021  
Internal reference : D1