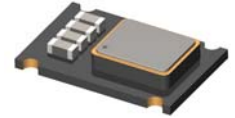


(V)TX50S3A Series

Stratum 3, VC-TCXO, 5.0 x 3.2mm, Clipped sine wave/HCMOS

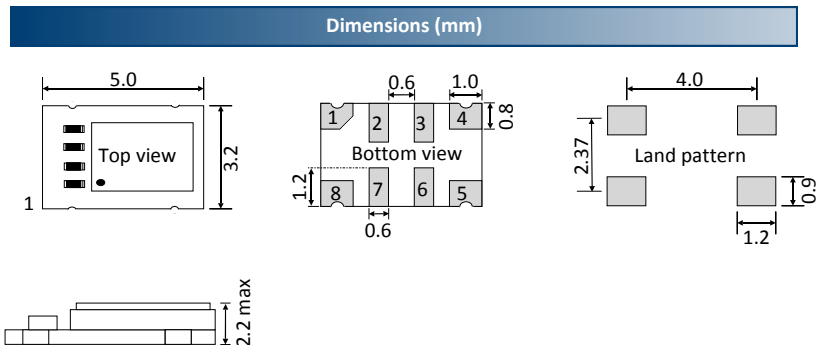


Stratum 3 compliant
Surface mount device
REACH, RoHS compliant



Parameters		Specification		Remarks
Frequency range		F_nom	9.6MHz ~ 50.0MHz	
Supply voltage		Vcc	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 (Typical @ 10.0MHz)	vs Temperature	F_stb	±0.25ppm ~ ±2.0ppm	Over -40°C ~ +85°C, fref=(fmax+fmin)/2
	vs Load	F_load	±0.2ppm max	±5% load condition change
	vs Voltage	F_Vcc	±0.2ppm 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, -30°C ~ +75°C, -40°C ~ +85°C	
Storage temperature (°C)		Tstg	-55°C ~ +105°C	
Output wave form			Clipped sine wave(CSW), HCMOS	
Output load			CSW: 10KΩ//10pF HCMOS: 15pF	
Output voltage level (CSW)			0.8V p-p (min)	
Output voltage level (HCMOS)			Voh: 80% Vcc, Vol: 20% Vcc	
Rise time and Fall time (HCMOS)		Tr, Tf	8.0ns max	10% to 90% of waveform
Duty cycle (HCMOS)		Sym	45%/55%	Measured at 50% Vcc
Current consumption		Icc	10.0mA max	
VC-TCXO option only				
Control Voltage		Vc	1.65V ± 1.65V,	
Frequency tuning (ppm)			±10.0ppm ~ ±15.0ppm, ±5 ~ ±10ppm	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	-95
100Hz	-120
1kHz	-138
10kHz	-145
100kHz	-148



- Pad 1: NC for TCXO, Voltage control(Vc) for VCTCXO
- Pad 2, 3, 6, 7: NC
- Pad 4: GND
- Pad 5: Output
- Pad 8: Supply voltage Vcc

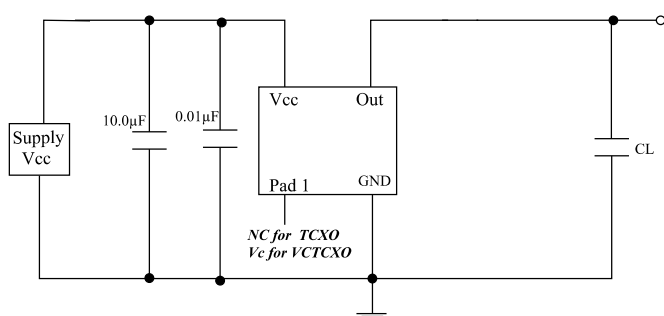
(V)TX50S3A Series

Stratum 3, VC-TCXO, 5.0 x 3.2mm, Clipped sine wave/HCMOS

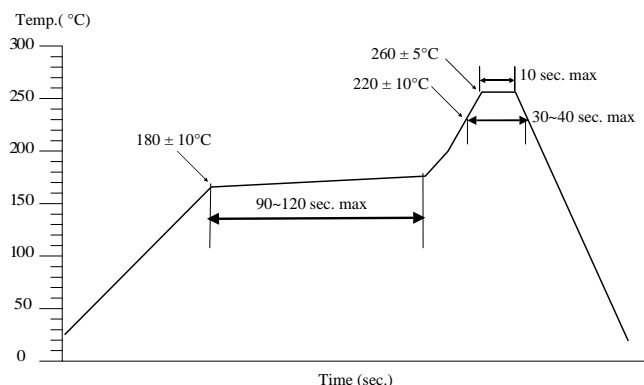


TCXO part number generation									
TX50S3A	2600	W	B	K	B	X	Z	L	-PF
ACT series Code	Frequency (MHz) Ex. 26.00MHz	Temp. stability (±ppm)	Supply voltage (V)	Operating temp. range (°C)	Output wave	Electrical tuning (±ppm)	Duty Cycle (%/%)	Tape & Reel	RoHS Code
TCXO = TX50S3A VCTCXO = VTX50S3A	26MHz = 2600 8MHz = 0800 < 100MHz First 4 digit of frequency > 100MHz First 5 digit of frequency	0.25 = C 0.5 = R 1.0 = P 2.0 = N	3.3V = B	-20 ~ +70 = B -30 ~ +75 = W -40 ~ +85 = K	CSW = B HCMOS = E	<u>For TCXO</u> None = X <u>For VCTCXO</u> ±10 ~ ±15ppm = Y ±5 ~ ±10ppm = Q	<u>For CSW</u> Not specified = Z <u>For HCMOS</u> 45/55 = H	Loose = L 1000 = C	-PF
<p>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 : TX50S3A2600WBK BXZL-PF [26MHz], VTX50S3A1474WBK BXZL-PF [14.7456MHz]</p>									

HCMOS test circuit



Solder reflow profile



Drawing control: (Internal use only)
 Commodity code: 854370 90 99
 Issue number : N1
 Date : 01/09/2017
 Internal reference : D1