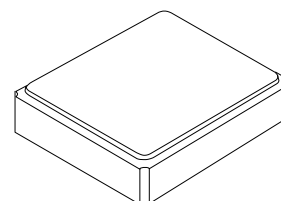


XTC4016

**30 MHz
TCXO**



SM2520-4

Features:

- Ultra Miniature SMD Package
- Good Frequency Stability
- Good Phase Noise Response
- Moisture Sensitivity Level (MSL) : Level-1

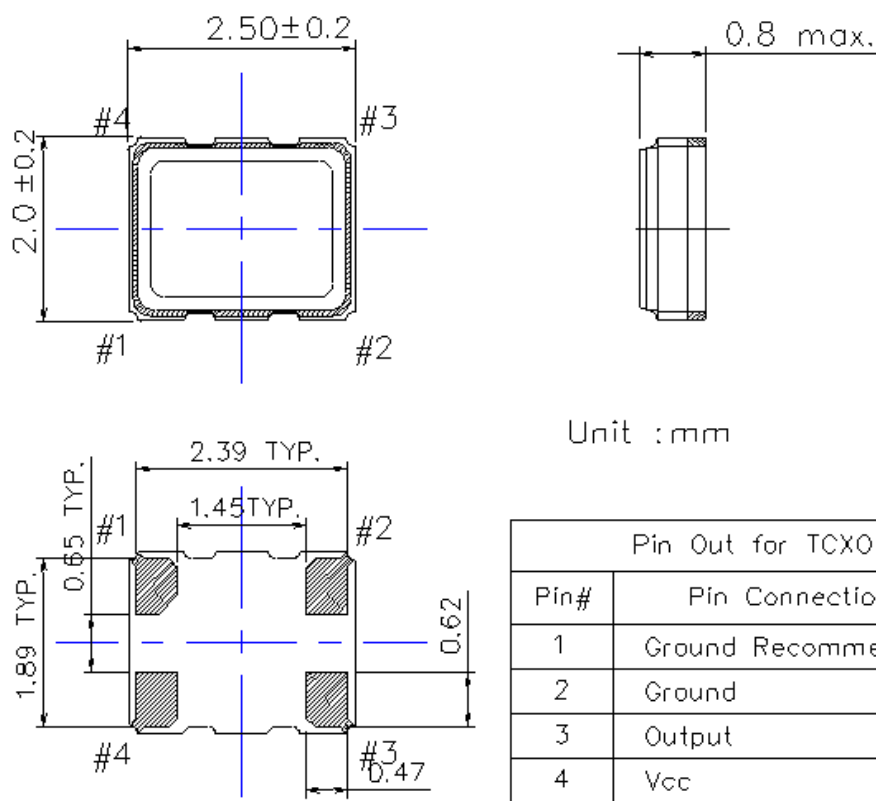
Description and Applications:

Surface mount 2.5mmx2.0mm TCXO for use in wireless communications devices

Electrical Specifications:

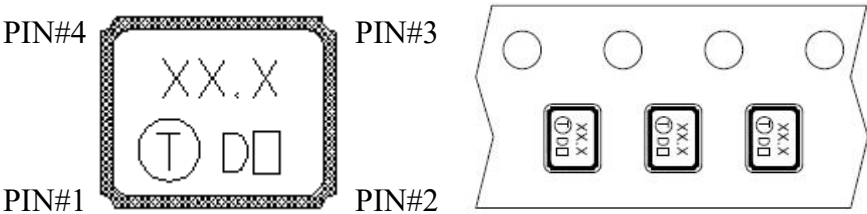
XTC4016	Specifications
Storage Temperature Range	-40°C to +85°C
Operating Temperature Range	-40°C to +85°C
Power Supply Voltage, Vcc	3.6 V +/-5% (3.63V max)
Output Voltage with Load 10pF//10KΩ, Vout	0.8 Vp-p min
Output Waveform	Clipped Sinewave
Power Supply Current, Icc	2.0 mA max
Frequency Tolerance as Received Ref. to Nominal Frequency	+/- 0.5 ppm max @ 25°C +/- 3°C
Frequency Deviation after 2 x Reflow Ref. to pre-reflow Freq.	+/- 1.0 ppm max @ 25°C +/- 3°C
Frequency Stability	
a. Vs. Temperature (-40~85°C)	+/- 2.0 ppm reference to 25°C
b. Vs. Load varied 10pF//10KΩ +/-10%	+/- 0.2 ppm
c. Vs. Supply Voltage varied Vcc +/-5%	+/- 0.2 ppm
Harmonics	-5.0 dBc max
Start Up Time (90% of final RF level in Vp-p)	2.0 msec max.
Aging	+/-1.0 ppm/year @25°C
SSB Phase Noise (@1kHz Carrier Offset)	-130 dBc/Hz typ
Marking	Laser marking

Mechanical Dimensions (mm):



Marking:

Line 1: Frequency (30.0)
Line 2: Date Code + Product Code (□ internal tracking code, could be a~z and A~Z)



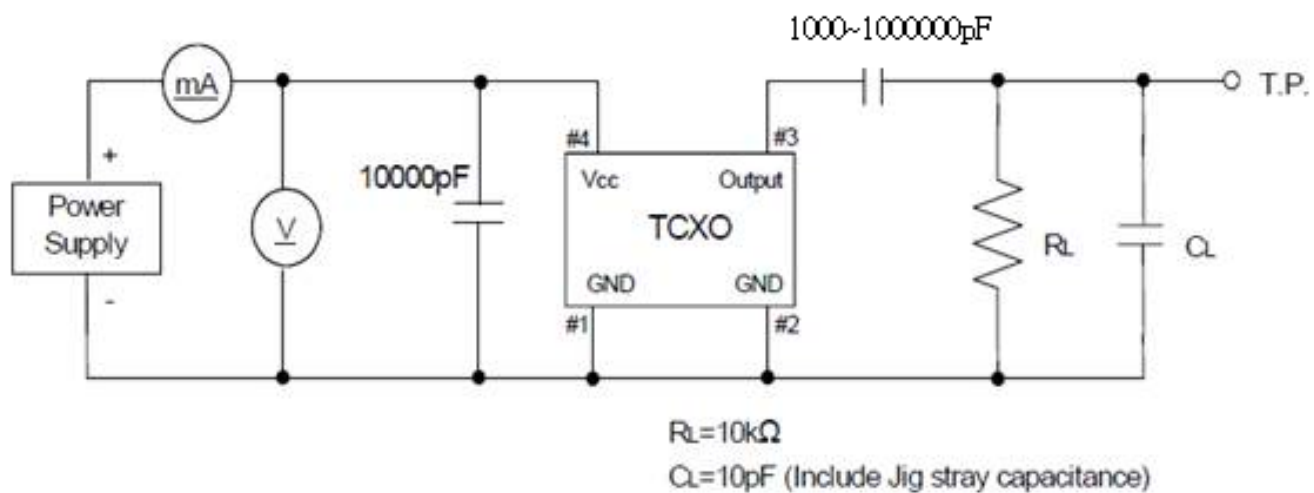
Date Code Table

Date Code Table												
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	o	p	q	r	s	t	u	v	w	x	y	z

Product Code Table: (Under line With Even Year and Odd Year for Nothing)

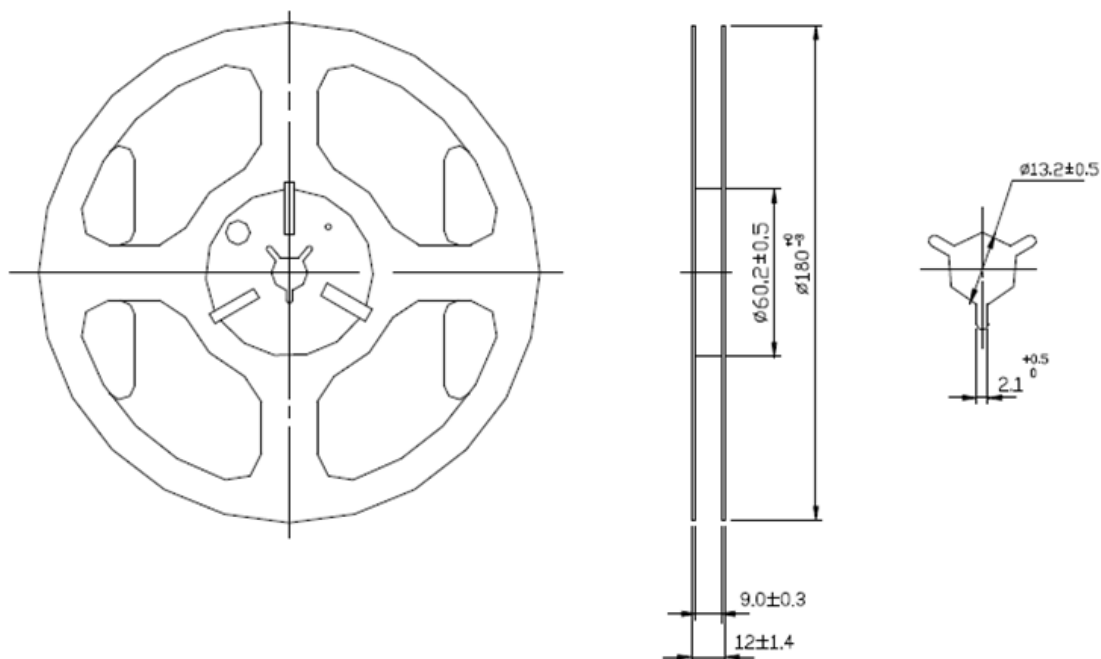
Year						Product Code
2013	2015	2017	2019	2021	2023	□
2014	2016	2018	2020	2022	2024	□

Recommended Circuit

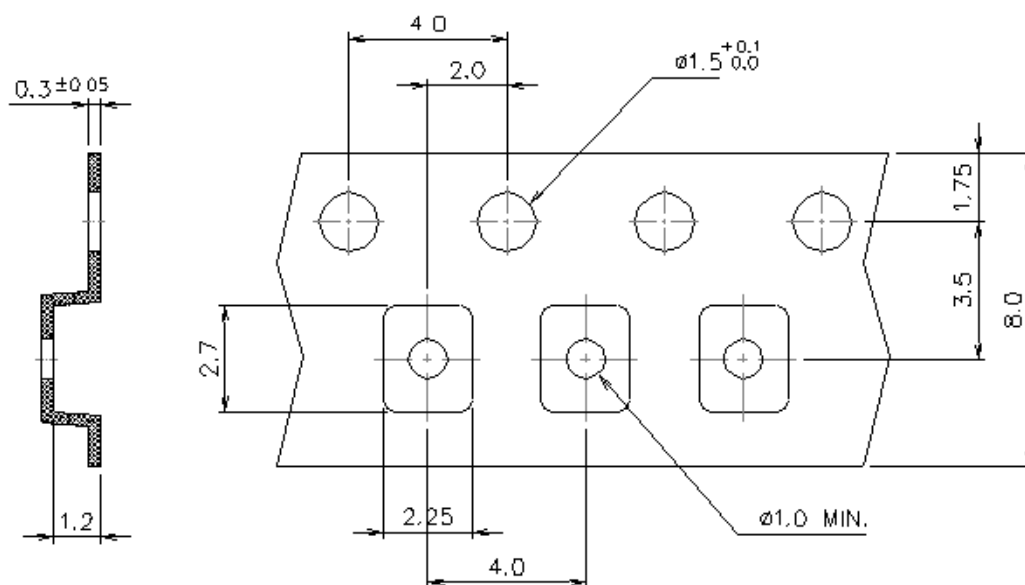


Reel Dimension

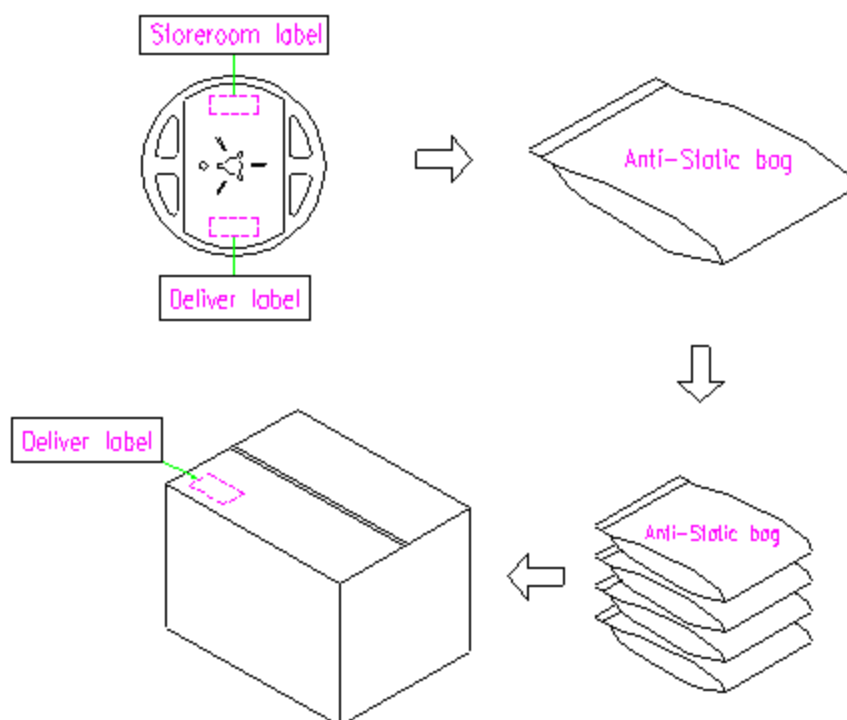
Reel Count"
7" = 3000



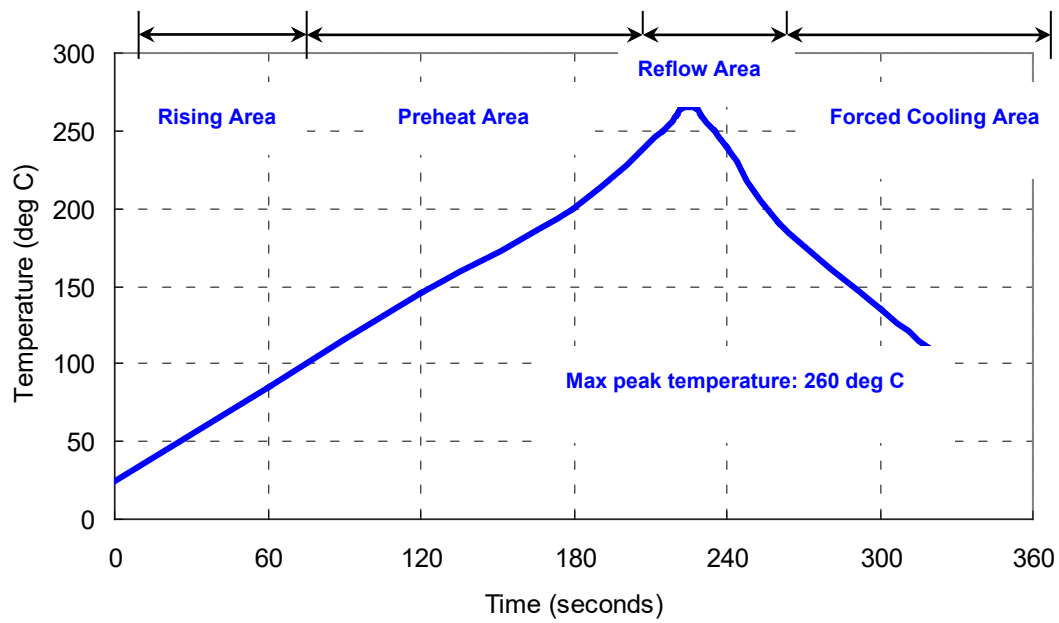
Tape Dimension



Packing Quantity/Packing:



Reflow Profile:



Notes of the Usage:

1. Touch the solder iron at 260+/-5 deg C onto the leads for 10+/-2 sec max or touch the solder at 350+/-5 deg C onto the leads for 3+/-0.5 sec.
2. In the customer's reflow process, if it will remain some mechanical stress at the soldering terminals, also make some cracks on the soldering termination. Some cracks will cause open or short circuit and cause of thermal increasing or smoking. Don't make any excess mechanical stress to soldering points.
3. In case of giving a heavy shock to the products, it may make an open or short circuit and cause of thermal increasing and smoking. To avoid heavy shock impact applying to products is strictly required.

Notes of the Storage:

1. To keep products under the condition at the room temperature (-5~35 deg C) with normal humidity (45~75%). Absorption of moisture and dewdrop may make inferiority of characteristics and a short circuit.
2. Oxidization of terminals shall make the solderability more inferior. Dusts and corrosive gas will make a cause of the open or short circuit. Keep it in the clean place where is not in dusty and no corrosive gas.
3. Use the anti-static material to the storage package.
4. Don't put any excess weight to the TCXO in the storage process.
5. Don't move the product from the cold place to the hot place in the short time, otherwise it may make some dew-drop, then a short circuit may happen in case.
6. Storage periods should be maximum 6 months under condition of above item 1 after delivery from the factory.
7. Once open the bag, there is possibility of electrical characteristics deterioration due to absorption of moisture. So, please use parts within 7 days after opening the bag.
8. If you have to keep parts without using after opening the bag, please put the drying agent in the bag, fold the bag and keep it in the place where temperature and humidity are controlled (nitrogen atmosphere box etc.)



CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.