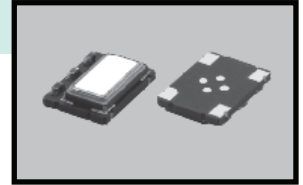


# TX7050S, TX7050SV



**General Description**

Compact size VC/TCXO for wireless and telecomm. applications

**Features**

Standard stability  $\pm 2.5$ ppm  
Wide temp. range

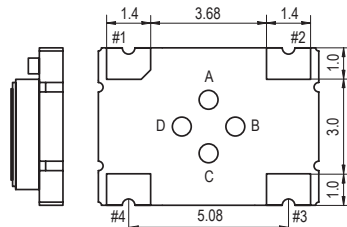
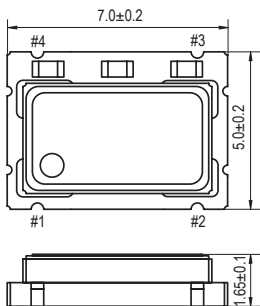
**Main applications**

Telecomm, Wireless,

**Electrical characteristics**

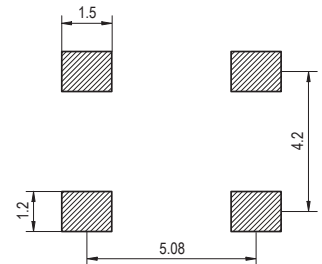
Item	Values	
Part number	TX7050S	TX7050SV
Output Waveform	Clipped Sinus	
Frequency range	10 - 26 MHz	
Supply voltage	+2.8V , +3.0V , +3.3V , +5.0V	
Control Voltage	-	+1.5V $\pm 1.0$ V DC
Initial frequency tolerance @ +25°C	$< \pm 0.5$ ppm (Vcontrol = +1.5V)	
Frequency stability	vs temp. vs Vdd vs Load	$< \pm 2.5$ ppm max over -30/+75°C (ref. @ +25°C) $< \pm 0.2$ ppm @ Vdd $\pm 5\%$ $< \pm 0.2$ ppm @ 10k $\Omega$ // 10pF $\pm 10\%$
Aging	$< \pm 1.0$ ppm / year @ +25°C	
Operating temp. range	-30°C / +75°C, option -40°C / +85°C	
Storage temp. range	-40°C / +85°C	
Current consumption	2mA max	
Output	0.8Vp-p min.	
Output load	10k $\Omega$ // 10pF	
Output waveform	Clipped Sinus (DC cut)	
Frequency adjustment	-	$> \pm 8$ ppm
Slope	-	positive
Harmonic	-5dBc max	
Start up time	2ms	
SSB Phase noise	-130dBc/Hz typ. @ 1KHz offset	
Short term stability	$\pm 1$ ppb max [allan variance tau=1s]	

**Dimensions**



\* The terminals (A,B,C &D) Not to be connected.  
\* No pattern path underneath the package.

PIN	CONNECTION	
	TCXO	VC-TCXO
1	SXO-7100	SXO-7100V
2	GND	Vcontrol
3	GND	
4	OUTPUT	
	V <sub>DD</sub>	



Remark : specifications subject to change without prior notice. Please confirm with our sales

# TX7050S, TX7050SV

## Part Number Generator

**TX7050S**    **A**    **15**    **A**    **S**    **T**    -    **010.000000**    **xxx**  
 0            1            2            3            4            5            6            7

**0** : Type  
 TX7050S  
 TX7050SV

**5** : Pulling range  
 T = TCXO  
 8 > ±8.0ppm

**1** : Vcc  
 A = +2.8V  
 B = +3.0V  
 C = +3.3V  
 D = +5.0V

**6** : Frequency (MHz)  
 □□□.□□□□□□  
 max 10 digits including comma

**2** : Stability in temperature  
 25 < 2.5ppm

**7** : Customized code  
 Note : factory use

**3** Op. temp. range  
 B = -30/+75  
 A = -40/+85

**4** : Output  
 S = Clipped sinus