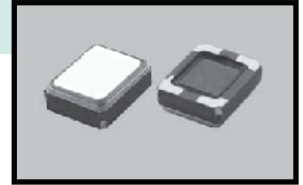


TX2016-1



General Description

Ceramic packaged VC/TCXO with good mechanical reliability

Features

Very tight stability : $\pm 0.5\text{ppm}$
 Wide range of supply voltage
 Very low Phase noise and Jitter

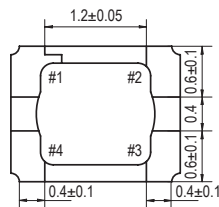
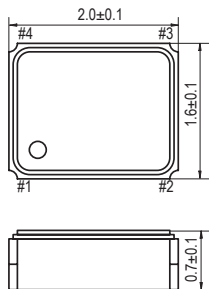
Main applications

GPS, WiMAX, Cellular phones, wireless, telecomm.

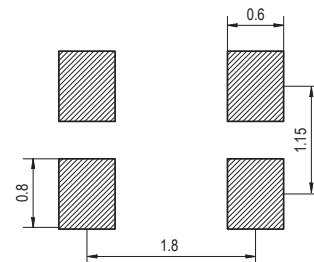
Electrical characteristics

Item	Values	
Part number	TX2016-1S	TX2016-1SV
Output Waveform	Clipped Sinus	
Frequency range	13 - 52 MHz	
Supply voltage	+1.8V , +2.5V , +2.8V , +3.0V , +3.3V	
Control Voltage	+0.9V $\pm 0.8\text{V}$ [1.8V] 1/2Vdd $\pm 1\text{V}$ [2.58V to 3.3V]	
Initial frequency tolerance @ +25°C	$< \pm 1.5\text{ppm}$ [Vcontrol = 1/2Vdd	
Frequency stability	vs temp. vs Vdd vs Load	$< \pm 0.5\text{ppm}$ max over -30/+85°C $< \pm 0.2\text{ppm}$ @ Vdd $\pm 5\%$ $< \pm 0.2\text{ppm}$ @ 10k Ω // 10pF $\pm 10\%$
Aging	$< \pm 1.0\text{ppm}$ / year @ +25°C	
Operating temp. range	-30°C / +85°C, option -40°C / +85°C	
Storage temp. range	-40°C / +85°C	
Current consumption	2.0mA max	
Output	0.8Vp-p min.	
Output load	10k Ω // 10pF	
Frequency adjustment	-	$\pm 8\text{ppm}$ to $\pm 13\text{ppm}$ [1.8V] $\pm 9\text{ppm}$ to $\pm 15\text{ppm}$ [2.5V to 3.3V]
Slope	-	positive
Start up time	10ms max	
SSB Phase noise	-135dBc/Hz typ. @ 1KHz offset	
Short term stability	$\pm 1\text{ppb}$ max [allan variance tau=1s]	

Dimensions



PIN	CONNECTION	
	TCXO	VC-TCXO
1	SXO-2016	SXO-2016V
2	GN D	Vcontrol
3	OUTPUT	
4	VDD	



TX2016-1

Part Number Generator

TX2016-1S A 15 A S T - 013.000000 xxx
 0 1 2 3 4 5 6 7

0 : Type
 TX2016-1S
 TX2016-1SV

5 : Pulling range
 T = TCXO
 8 > ±8.0ppm
 10 > ±10ppm

1 : Vcc
 F = +1.8V
 E = +2.5V
 A = +2.8V
 B = +3.0V
 C = +3.3V

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

2 : Stability in temperature
 05 < ±0.5ppm
 10 < ±1.0ppm
 15 < ±1.5ppm
 20 < ±2.0ppm
 25 < ±2.5ppm

7 : Customized code
 Note : factory use

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

4 : Output
 S = Clipped sinus