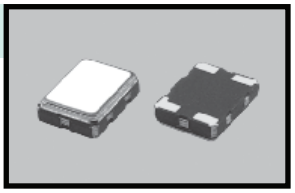
Quartz Crystal Technology

VC/TCXO (**Clipped Sinus, CMOS**)

TX3225



General Description
Compact size VC/TCXO for wireless and telecomm. applications

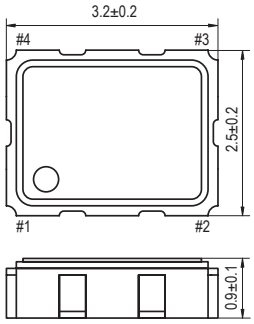
Features
Standard stability ± 2.5ppm
Wide temp. range

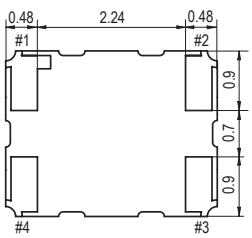
Main applications
Telecomm, Wireless,

Electrical characteristics

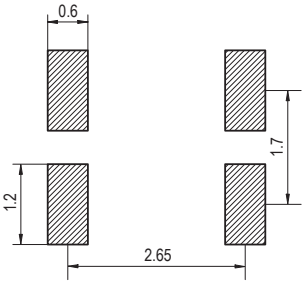
Item	Values			
Part number	TX3225S	TX3225SV	TX3225C	
Output Waveform	Clipped Sinus		CMOS	
Frequency range	10 - 40 MHz		4 -54 MHz	
Supply voltage	+1.8V , +2.5V , +2.8V , +3.0V , +3.3V			
Control Voltage	-	+1.5V ±1.0V	-	
Initial frequency tolerance @ +25°C	<±1.5ppm (Vcontrol = +1.5V)		<±1.0ppm	
Frequency stability vs temp. vs Vdd vs Load	<±2.5ppm max over -30/+75°C <±0.2ppm @ Vdd ±5% <±0.2ppm @ 10kΩ//10pF ±10%		<±2.5ppm max over -30/+75°C <±0.2ppm @ Vdd ±5% <±0.2ppm @ 15pF ±10%	
Aging	<±1.0ppm / year @ +25°C			
Operating temp. range	-30°C / +75°C, option -40°C / +85°C			
Storage temp. range	-40°C / +85°C			
Current consumption	1.7mA max		7mA max	
Output	0.8Vp-p min.		10% Vdd - 90% Vdd	
Output load	10kΩ // 10pF		15pF max	
Frequency adjsutment	-	±8 to ±13ppm (1.8V) ±9 to ±15ppm (>1.8V)	-	
Slope	-	positive	-	-
Start up time	10ms max			
SSB Phase noise	-135dBc/Hz typ. @ 1KHz offset		-145dBc/Hz typ. @ 1KHz offset	
Short term stability	±1ppb max (allan variance tau=1s)			

Dimensions





PIN	CONNECTION	
	TCXO	VC- TCXO
1	GND (recommended) or NC	Vcontrol
2	GND	
3	OUTPUT	
4	V_{DD}	



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

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VC/TCXO (**Clipped Sinus, CMOS**)

TX3225

Part Number Generator

TX3225S	A	15	A	S	T	-	010.000000	xxx
0	1	2	3	4	5		6	7

0 : Type

TX3225S
TX3225SV
TX3225C

1 : Vcc

F =+1.8V
E = +2.5V
A = +2.8V
B = +3.0V
C = +3.3V
D = +5.0V

2 : Stability in temperature

25 < 2.5ppm

3 Op. temp. range

B = -30/+75
A=-40/+85

4 : Output

S = Clipped sinus
C = CMOS

5 : Pulling range

T = TCXO
8 > ±8.0ppm
10 > ±10ppm

6 : Frequency (MHz)

□□□.□□□□□□
max 10 digits including comma

7 : Customized code

Note : factory use