



SMD Temperature Compensated Crystal Oscillator

TCXO 3225

Features

- Compactness and Lightweight
- Low thickness

Specifications	Option Codes
Nominal Frequency:	10 MHz ~ 52 MHz
Output Waveform:	Clipped SineWave CS
Output Load:	10 kΩ // 10 pF
Output Levels:	0.8 V _{p-p} (min.)
Current Consumption:	1.5 mA (max.) for 10 MHz ~ 26 MHz 2.0 mA (max.) for 26 MHz ~ 52 MHz
Start-up Time:	2 mS (max.)
Supply Voltage, Vdd:	+3.3 V ± 5% 3 +2.5 V ± 5% 2 +1.8 V ± 5% 1
Supply Voltage Stability:	± 0.2 ppm (max.)
Load Stability:	± 0.2 ppm (max.)
Frequency Tolerance @ 25°C:	± 2 ppm (max.)
Operating Temperature Range (OTR) and Temperature Stability:	Select from Table 1
Frequency Adjustment option:	External Control Voltage V None (Fixed Frequency) N
Control Voltage Range:	1.5 V ± 1 V (for +3.3 V) 1.4 V ± 1 V (for +2.5 V) 0.9 V ± 0.6 V (for +1.8 V)
Frequency Pulling Range:	± 5 ppm (min.)
Control Voltage Input Impedance:	500 KΩ (min.)
Aging @ 25°C:	± 1 ppm (max.) for First Year
Storage Temperature Range:	-55°C to +125°C



SMD Temperature Compensated Crystal Oscillator

Mechanical Specifications

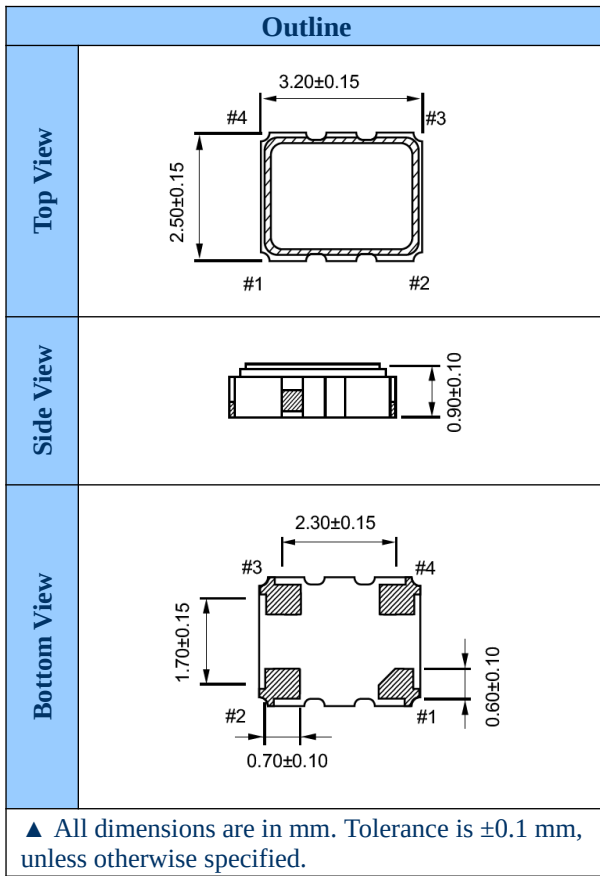


Table 1

OTR Codes	Stability Codes				
	X	Y	Z	P	Q
	Temperature Stability				
	± 0.5 ppm	± 1 ppm	± 1.5 ppm	± 2 ppm	± 2.5 ppm
C	Operating Temperature Range	-20°C to +70°C			
G		-30°C to +80°C			
I		-40°C to +85°C			

Denotes Available Denotes not Available

Table 2
Typical SSB Phase Noise @ 20 MHz

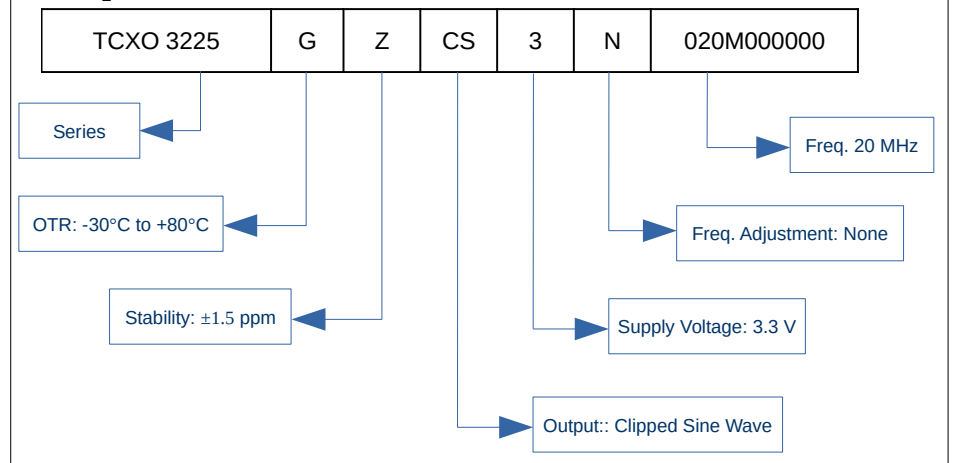
100 Hz offset	-115 dBc/ Hz
1 KHz offset	-135 dBc/ Hz
10 KHz offset	-145 dBc/ Hz

Pad Configuration:

Pad	Option V	Option N
1	Control Voltage	Ground/ No Connection
2	Ground	Ground
3	Output	Output
4	Supply Voltage	Supply Voltage

Ordering Information

Example



Specifications subject to change without prior notice

Rev. Date: 4th March 2022

Note: Not all combination of options are available. Other specifications may be available upon request.

Doc. No.: AE/DS/PS/047

ISSUE 01

REVISION 00

Page 2 of 2

Andhra Electronics Pvt. Ltd.

Plot No.: 34 & 35, IDA,
Kakinada-533 005
Andhra Pradesh, India
URL: www.andhraelec.com

Phone: +91 884 234 2203
Fax: +91 884 234 1145
e-mail: info@andhraelec.com