



SMD Temperature Compensated Crystal Oscillator

TCXO 7054

Features

- Plastic SMD Package
- Ultra Stable
- Low Phase Noise

Specifications		Option Codes
Frequency Range:		10 MHz ~ 52 MHz
Clipped Sine Wave	Output Level:	0.8 Volts [Peak-to-Peak] (min.)
	Load:	10 KΩ// 10 pF ± 5%
HCMOS	V _{High} :	2.4 V (min.)
	V _{Low} :	0.4 V (max.)
	Duty Cycle:	45% to 55%
	Rise/ Fall Time:	6 ns (max.)
	Load:	15 pF ± 5%
Supply Voltage:		+3.3 V ± 5% +5.0 V ± 5%
Current Consumption:		15 mA (max.)
Supply Voltage Stability:		± 0.1 ppm (max.)
Load Stability:		± 0.2 ppm (max.)
Frequency Tolerance @ 25°C:		± 0.5 ppm (max.)
Operating Temperature Range and Temperature Stability:		Select from Table 1
Frequency Adjustment Option:		External Control Voltage None (Fixed Frequency)
Control Voltage Range:		1.5 V ± 1.0 V
Frequency Tuning Range:		± 5 ppm (min.)
Frequency Tuning Slope:		Positive
Linearity:		10% (max.)
RMS Jitter:		1.3 ps (max.) [12 KHz ~ 5 MHz]
Aging @ +25°C:		± 1 ppm (max.) per year
Storage Temperature Range:		-55°C to +125°C



SMD Temperature Compensated Crystal Oscillator

Mechanical Specifications

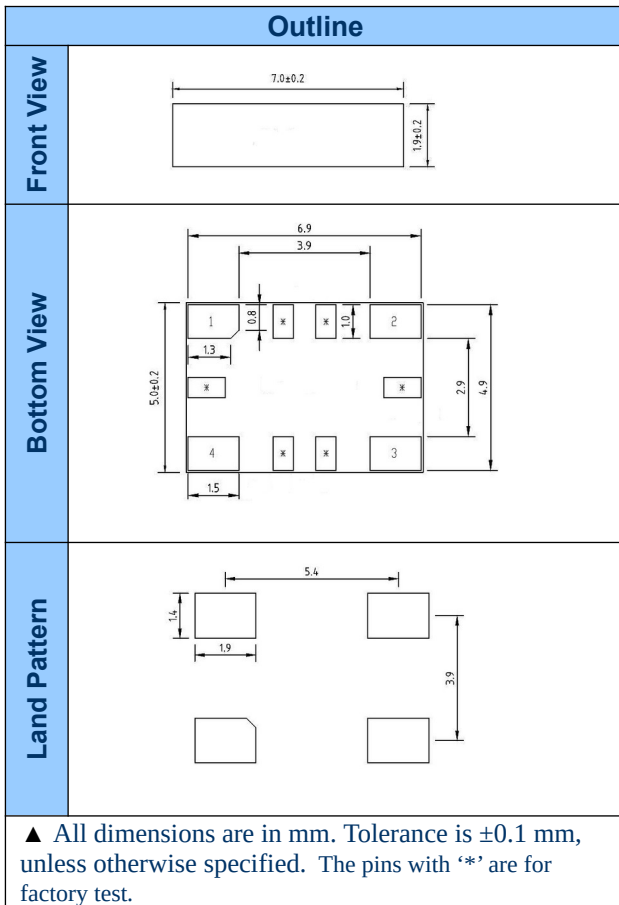


Table 1

OTR Codes	Stability Codes	050	W	V1	X4	X	Y
		Temperature Stability	± 0.05 ppm	± 0.1 ppm	± 0.2 ppm	± 0.28 ppm	± 0.5 ppm
C	-20°C to +70°C						
G	-30°C to +80°C						
H	-30°C to +85°C						
I	-40°C to +85°C						
L3	-50°C to +90°C						
L4	-55°C to +95°C						

Denotes Available Denotes not Available

Table 2
Typical SSB Phase Noise @ 10 MHz

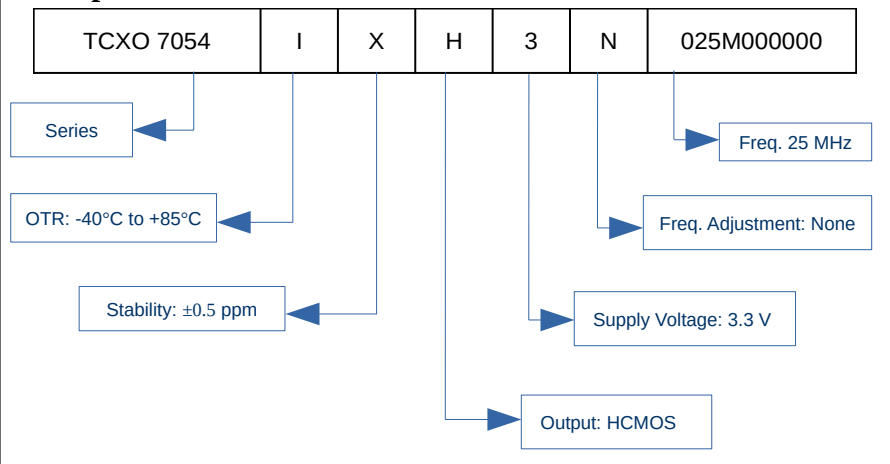
10 Hz offset	-95 dBc/ Hz
100 Hz offset	-120 dBc/ Hz
1 KHz offset	-140 dBc/ Hz
10 KHz offset	-145 dBc/ Hz
100 KHz offset	-150 dBc/ Hz

Pad Configuration:

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

Ordering Information

Example



Specifications subject to change without notice

Rev. Date: 22nd June 2021

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

Doc. No.: AE/DS/PS/002

ISSUE 01

REVISION 01

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