

CRYSTAL OSCILLATORS

TCXO Automotive Grade

ACTUAL SIZE: ☐ |

TXOF-221Z SERIES CERAMIC PACKAGE



APPLICATIONS

- ▶ Wi-Fi
- ▶ ADAS
- ▶ GPS/GNSS
- ▶ Vehicle-to-Everything
- ▶ Battery Management System

FEATURES

- ▶ Seam Seal
- ▶ Excellent Solderability
- ▶ Low Power Consumption
- ▶ RoHS Compliant
- ▶ IATF-16949 Certified
- ▶ AEC-Q200 Qualified

Specification

MODEL

FREQUENCY RANGE	MHz	13.000 ~ 52.000
FREQUENCY TOLERANCE	ppm	± 2.0 Max.
OPERATING TEMPERATURE	°C	- 30 ~ + 85 Or - 40 ~ + 85
STORAGE TEMPERATURE	°C	- 55 ~ + 125
POWER SUPPLY VOLTAGE	VDC	+1.2 ± 5%

FREQUENCY STABILITY

VS. OPERATING TEMPERATURE*	ppm	± 0.5 ~ ± 2.0
VS. POWER SUPPLY VOLTAGE	ppm (Max.)	± 0.2
VS. OUTPUT LOAD	ppm (Max.)	± 0.2
OUTPUT WAVEFORM		CLIPPED SINEWAVE
OUTPUT LOAD		10KΩ//10pF
OUTPUT LEVEL	Vp-p (Min.)	0.8

INPUT CURRENT

10.000 ~ 52.000MHz	mA (Max.)	2.5
--------------------	-----------	-----

PHASE NOISE

@100Hz offset		-115
@1KHz offset	dBc/Hz (Typ.)	-133
@10KHz offset		-146
START UP TIME	ms (Max.)	2.0
Enable-Disable Function		Yes
AGING	ppm/Year	± 1

*Refer to the middle point between the minimum and maximum frequency values.

**Specification subject to change without notice.

Pin Connection

PIN No.	Connection
#1	Enable/Disable
#2	GND
#3	Output
#4	VDC

Enable/Disable Function

Pin #1	Pin #3
HIGH	Frequency Output
LOW	Frequency Halt

Dimension(mm)

TXOF-221Z SERIES

