

# CRYSTAL OSCILLATORS

## TEMPERATURE COMPENSATED CRYSTAL OSCILLATOR



### TXON-221 SERIES

#### CERAMIC PACKAGE

##### Applications

- Cell Phone
- Communication
- Test Equipment

##### Features

- Seam Seal
- Low power consumption
- RoHS Compliant

■ Actual Size:

#### Specification

##### MODEL

FREQUENCY RANGE	MHz	10.000 ~ 52.000			
FREQUENCY TOLERANCE	ppm	± 2.0 Max.			
OPERATING TEMPERATURE	°C	- 20 ~ + 70 Or - 40 ~ + 85			
STORAGE TEMPERATURE	°C	- 55 ~ + 125			
POWER SUPPLY VOLTAGE	VDC	+1.8 ± 5%	+2.5 ± 5%	+3.3 ± 5%	+1.68 ~ +3.63
FREQUENCY STABILITY					
VS. OPERATING TEMPERATURE*	ppm	± 0.5 ~ ± 2.0	± 0.5 ~ ± 2.0	± 0.5 ~ ± 2.0	± 0.5 ~ ± 2.0
VS. POWER SUPPLY VOLTAGE	ppm (Max.)	± 0.2	± 0.2	± 0.2	± 0.2
VS. OUTPUT LOAD	ppm (Max.)	± 0.2	± 0.2	± 0.2	± 0.2
OUTPUT WAVEFORM		CLIPPED SINEWAVE			
OUTPUT LOAD		10KΩ//10pF			
OUTPUT LEVEL	Vp-p (Min.)	0.8	0.8	0.8	0.8
INPUT CURRENT					
10.000 ~ 52.000MHz	mA (Max.)	2.5	2.5	2.5	2.5
PHASE NOISE					
@100Hz offset		-114	-114	-114	-114
@1KHz offset	dBc/Hz (Typ.)	-131	-131	-131	-131
@10KHz offset		-148	-148	-148	-148
START UP TIME	ms (Max.)	2.0	2.0	2.0	2.0
AGING	ppm/Year	± 1	± 1	± 1	± 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	GND / No Connect
#2	GND
#3	Output
#4	VDC

#### Dimension(mm)

##### TXON-221

