ACCURATE KINETIC ENERGY

CRYSTAL OSCILLATORS

TEMPERATURE COMPENSATED CRYSTAL OSCILLATOR

ACTUAL SIZE: ▭

TXON-221B SERIES CERAMIC PACKAGE

APPLICATIONS

- Cell Phone
- Communication
- Test Equipment
- Wi-Fi
- IoT Devices

FEATURES

- Seam Seal
- Low power consumption
- RoHS Compliant

Specification

MODEL					
FREQUENCY RANGE	**MHz**	8.000 ~ 52.000			
FREQUENCY TOLERANCE	**ppm**	± 2.0 Max.			
OPERATING TEMPERATURE	**°C**	- 30 ~ + 85 Or - 40 ~ + 85 Or - 40 ~ + 105			
STORAGE TEMPERATURE	**°C**	- 55 ~ + 125			
POWER SUPPLY VOLTAGE	**VDC**	+1.8 ± 5%	+2.5 ± 5%	+3.3 ± 5%	1.68 ~ 3.63
OUTPUT LEVEL		CMOS			
OUTPUT SYMMETRY	**%**	45 ~ 55 (at 50% VDC)			
FREQUENCY STABILITY					
VS. OPERATING TEMPERATURE*	**ppm**	± 2.5 ~ ± 5.0			
VS. POWER SUPPLY VOLTAGE	**ppm (Max.)**	± 0.2			
VS. OUTPUT LOAD	**ppm (Max.)**	± 0.2			
INPUT CURRENT					
8.000 ~ 20.000MHz	**mA (Max.)**	2.8	3.7	4.8	4.8
20.001 ~ 30.000MHz	**mA (Max.)**	3.2	4.2	5.5	5.5
30.001 ~ 40.000MHz	**mA (Max.)**	3.6	4.6	6	6
40.001 ~ 52.000MHz	**mA (Max.)**	4.5	5.5	7.0	7.0
RISE / FALL TIME (10% to 90% / 90% to 10% Output Swing)					
8.000 ~ 52.000MHz	**ns (Max.)**	7	6	5.0	7.0
Phase Jitter (12 KHz to 20 MHz)	**ps Max. RMS**	1			
OUTPUT LOAD	**pF (Max.)**	15			
START UP TIME	**ms (Max.)**	10.0			
Enable-Disable Function		Tri-State			
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(OPEN)	Frequency Output
LOW	Frequency Halt

Dimension(mm)

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