

CRYSTAL OSCILLATORS

TCXO Automotive Grade

ACTUAL SIZE: ☐

TXOF-321B SERIES CERAMIC PACKAGE



APPLICATIONS

- ▶ ADAS
- ▶ GPS/GNSS
- ▶ Telematics BOX
- ▶ Vehicle-to-Everything
- ▶ In-Vehicle Infotainment
- ▶ Battery Management System

FEATURES

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

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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