

# MODEL TROAXN ACCELEROMETER

"X" Represents signal polarity. When ordering indicate with "P" or "C". "P" Designates a Positive Output in the upward direction when pin mounted. "C" Designates a Positive Output in the upward direction when cap mounted.

(EXAMPLE: TROAPN FOR PIN MOUNTED, TROACN FOR CAP MOUNTED)

## DYNAMIC PERFORMANCE

Charge Sensitivity [1] ( $\pm 20\%$ )	pC/g	100
Frequency Limit [2] ( $+5\%$ )	Hz	4000
( $+10\%$ )	Hz	6000
( $+3\text{dB}$ )	Hz	8000
Mounted Resonant Frequency	kHz	$>20$
Amplitude Non-Linearity [3]	%	$\leq 1$
Transverse Sensitivity	%	$\leq 5$

## ENVIRONMENTAL

Shock Limit - All Axes (Maximum)	$\pm$ g pk [ $\pm$ ms <sup>-2</sup> pk]	6000 [60000]
Operating Temperature Range *	*F[*C]	-65 to +250 [-54 to +121]
Storage Temperature Range *	*F[*C]	-65 to +250 [-54 to +121]
Temperature Coefficient	%/F [%/C]	0.10 [0.18]

## MECHANICAL

Sensing Element	material/Geometry	PZT/Shear
Capacitance (Typical)	pF	3000
Housing	material sealing	Stainless Steel Welded, Hermetic
Size (diameter x height)	inch	0.645x 0.580
Weight [Mass]	oz [gm]	0.88 [25]
Electrical Connector	type/location	TO-8 (Three Pins)
Mounting	type	Adhesive/Solder

### NOTES:

[1] Consult factory for tighter tolerances

[2] Adhesive mounted on cap. Low frequency amplitude and phase are determined by signal conditioning electronics.

[3] Zero based best straight line method.

The use of adhesive is recommended for both cap and pin mounting in order to achieve the specified high frequency response. All specifications are typical and subject to change. Contact factory for latest information.

\*Consult factory for information on changes in sensitivity.  
(757) 426-3678

DRAWN	JEN	03/20/01	ENGR		
CHK'D			SALES		
APP'D			Spec. No.		

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