



4. HOUSING MATERIAL: INCONEL 600
3. MAXIMUM TEMPERATURE: 500°F
2. SENSITIVITY: 10 pC/g
1. WEIGHT: 75 GRAMS

EXCEPT AS OTHERWISE NOTED	
ALL DIMENSIONS IN INCHES TOLERANCE: XXX = $\pm .005$.XX = $\pm .01$	
SURFACE FINISH EXCEPT AS NOTED	63/ ✓
BREAK EDGES TO DEBURR RADIUS OR CHAMFER	.005 / .015
FILLETS: .005 MAX R	

DYTRAN MASTER
INSTRUMENTS, INC. ONLY IF IN RED CHATSWORTH, CA

SCALE 3:2	REV A	DATE 1/24/07	ECN 4531		
DATE 12/20/2006	PART NO.				
DRAWN	CHECKED CES	MATERIAL			
APPROVED CES 1-24-7	NEXT ASSEMBLY	USED ON			
TITLE OUTLINE / INSTALLATION DRAWING 3085C DIFFERENTIAL ACCELEROMETER			DWG NO. 127-3085C		
			SHEET 1 OF 1		



SPECIFICATIONS, MODEL 3085C CHARGE MODE ACCELEROMETER

SPECIFICATION	VALUE	UNITS
PHYSICAL		
WEIGHT	75	grams
SIZE , FLANGE X HEIGHT X LENGTH	1.448 FLANGE. DIA x .80 x 2.10	inch
MOUNTING PROVISION	3-BOLT PATTERN, 1.188 DIA BOLT CIRCLE	
CONNECTOR, SIDE MOUNTED	2-PIN, 7/16-27 UNS-2A SHELL	
CASE /CONNECTOR MATERIAL	INCONEL	
PERFORMANCE		
SENSITIVITY, ± 2.0 (NOM)	10	pC/g
RANGE F.S.	500	g's
FREQUENCY RESPONSE, $\pm 5\%$	[1] to 2500	Hz
MOUNTED RESONANT FREQUENCY, NOM.	13	kHz
AMPLITUDE NON-LINEARITY (ZERO BASED BEST FIT ST.LINE METHOD)	2.0	% F.S., MAX.
TRANSVERSE SENSITIVITY, MAX.	5	%
STRAIN SENSITIVITY @ 250/ $\mu\epsilon$.012	g/ $\mu\epsilon$
ENVIRONMENTAL		
MAXIMUM VIBRATION	± 1000	g,
MAXIMUM SHOCK	2000	g pk
TEMPERATURE RANGE	-65 TO +600	$^{\circ}\text{F}$
THERMAL SENSITIVITY COEFFICIENT	<.005	%/ $^{\circ}\text{F}$
SEAL	WELDED/CERAMIC TO METAL HERMETIC	
ELECTRICAL		
CAPACITANCE, NOM. PIN A-B	380	pF
OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP	SEE INSTALLATION DRAWING	
CAPACITIVE MISMATCH, DIFFERENCE FROM EACH PIN TO HOUSING	2 MAX	pF

NOTES:

[1] LOW FREQUENCY RESPONSE IS A FUNCTION OF THE CHARGE AMPLIFIER DISCHARGE TIME CONSTANT.

SUPPLIED ACCESSORIES:

(3) MOUNTING SCREW, MODEL 6535 (8-32 UNC X 0.5 inch socket head cap screws).