

**PROPRIETARY AND CONFIDENTIAL**

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DYTRAN INSTRUMENTS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF DYTRAN INSTRUMENTS, INC. IS PROHIBITED

**REVISIONS**

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	8234	SEE ECN	JS 01/11/12	<i>RA</i>	<i>JW</i>

3X  $\phi$ .17 THRU  
[4.3]

$\phi$ 1.188  
[30.2]

1.66  
[42.1]

6535, 8-32 UNC-2A  
MOUNTING SCREW,  
3 SCREWS SUPPLIED

$\phi$ .88  
[22.5]

.035  
.031 KEY

PIN B  
(-) OUT

.250  
[6.35]

PIN A  
(+) OUT

.37  
[9.5]

1.03  
[26.2]

.13  
[3.3]

1.329  
[33.75]

- 6. WEIGHT: 75 GRAMS
- 5. MAXIMUM OPERATING TEMPERATURE: 600 °F
- 4. SENSITIVITY: 10pC/g
- 3. CASE MATERIAL: 304L

ARROW INDICATES ACCELERATION DIRECTION FOR POSITIVE OUTPUT.

MATES WITH GLENAIR G345-1 PLUG

NOTES: UNLESS OTHERWISE SPECIFIED

**MOUNTING RECOMMENDATIONS:** PREPARE SURFACE AT LEAST  $\phi$ 1.25[31.75], .0001TIR. TAP THREE HOLES ON  $\phi$ 1.188 [30.2] EQUALLY SPACED AT LEAST  $\nabla$ .260[6.60]. RECOMMENDED MOUNTING TORQUE 12 LB-IN.

CONTRACT NO.



**MASTER ONLY IF IN RED**  
Chatsworth, CA

TITLE: **OUTLINE/INSTALLATION DRAWING 3085C**

USED ON	NEXT ASSY	UNLESS OTHERWISE SPECIFIED: INTERPRET DIM & TOL PER ASME Y14.5M - 1994. REMOVE BURRS. COUNTERSINK INTERNAL THDS 90° TO MAJOR DIA. CHAM EXT THDS 45° TO MINOR DIA. THD LENGTHS AND DEPTHS ARE FOR MIN FULL THDS. THDS PER MIL-S-7742. DIMENSIONS APPLY AFTER FINISHING.	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS. TOLERANCES ARE: DECIMALS ANGLES INCH METRIC $\pm 1^\circ$ .XX $\pm$ .03 .X $\pm$ 0.8 .XXX $\pm$ 0.10 .XX $\pm$ 0.25
APPLICATION			
THIRD ANGLE PROJECTION USA		ALL MACHINED SURFACES. TOTAL RUNOUT WITHIN .005. BREAK SHARP EDGES .005 TO .010. MACHINED FILLET RADII .005 TO .015. WELDING SYMBOLS PER AWS A2.4. ABBREVIATIONS PER MIL-STD-12	MATERIAL  FINISH  DO NOT SCALE DRAWING

APPROVALS		DATE
ORIG	<i>RA</i>	12/20/06
CHK	CES	01/24/07
APP	CES	01/24/07
APP		

SIZE <b>A</b>	CAGE CODE <b>2W033</b>	DWG. NO. <b>127-3085C</b>	REV <b>B</b>
SCALE: 1:1		SOLIDWORKS	SHEET 1 OF 1

<b>MODEL NUMBER</b> 3085C	<b>PERFORMANCE SPECIFICATION</b>	<b>DOC NO</b> PS3085C
<b>ACCELEROMETER, SINGLE AXIS, CHARGE MODE</b>		REV A, ECN 13545, 07/06/17



- HIGH TEMPERATURE OPERATION
- HIGH SENSITIVITY
- HERMETICALLY SEALED

**PHYSICAL**

Weight	Type	2.6 oz	75 grams
Connector, Side Mounted		2-Pin, 7/16-27 UNS-2A	2-Pin, 7/16-27 UNS-2A
Mounting Provision		3-Bolt Pattern	3-Bolt Pattern
Housing/Connector	Material	300 Series	300 Series

**PERFORMANCE**

	ENGLISH		SI	
Sensitivity, ±2.0 (Nom) [1]	10	pC/g	1	pC/m/s <sup>2</sup>
Frequency Response, ±5%	[2] to 2500	Hz	[2] to 2500	Hz
Range F.S	[3]		[3]	
Mounted Resonant Frequency	>13	kHz	>13	kHz
Transverse Sensitivity	<5	%	<5	%
Base Strain Sensitivity	<0.012	g/με	<0.118	m/s <sup>2</sup> /με
Linearity	±2	%	±2	%

**ENVIRONMENTAL**

Maximum Vibration	±1000	g peak	±9810	m/s <sup>2</sup>
Maximum Shock	2000	g peak	19620	m/s <sup>2</sup>
Seal	Hermetic		Hermetic	
Operating Temperature	-65 to +600	°F	-54 to +315	°C
Thermal Sensitivity Coefficient	0.005	%/°F	0.01	%/°C

**ELECTRICAL**

Capacitance, 20% Pin A-B	380	pF	380	pF
Capacitive Mismatch, Difference From Each Pin To Housing	<2	pF	<2	pF
Output Signal Polarity For Acceleration Towards Top	See Installation Dwg			

**This family also includes:**

Model	Sensitivity (pC/g)	Range F.S (g's)	Operating Temp (°F)	Freq Response (Hz)
3085M4	20	1000	-94 to +500	[2] to 5000

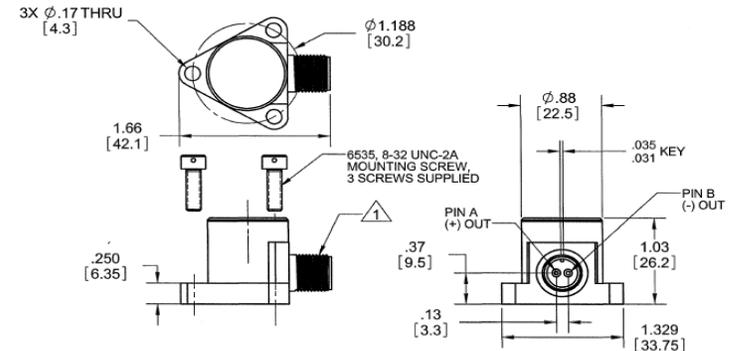
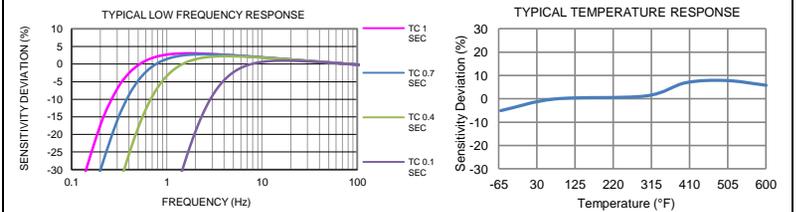
Please, refer to the performance specifications of the products in this family for detailed description

**Supplied Accessories:**

- 1) Model 6535 mounting screw (3)
- 2) Accredited Calibration Certificate (ISO 17025)

**Notes:**

- [1] Actual sensitivity is given on a calibration certificate
- [2] Low frequency response is the function of the discharge time constant of the charge amplifier used. Refer to the plot below for frequency response for different time constants
- [3] This parameter depends on the gain settings of charge amplifier used



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to document 127-3085C for more information



21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax: 818.700.7880 www.dytran.com For permission to reprint this content, please contact info@dytran.com