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REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
C	-	SEE ECN	NC, 11/29/05	NC	NC
D	13356	SEE ECN	RA, 03/20/17	LA	LN
E	13851	$\varnothing .750 \pm .005$ [19.05] WAS: $\varnothing .75$ [19]	RA, 11/09/17	MH	LN
F	15815	1/4 UNF-2B X .165/.185 WAS: 1/4 UNF-2B X .200	RA, 06/25/20	DP	LN- SEE PDM

SENSE & DIRECTION OF
FORCE FOR POSITIVE GOING
OUTPUT

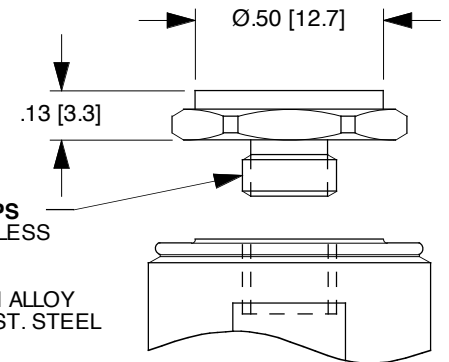
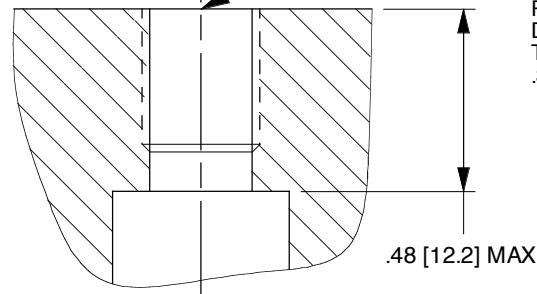
1/4-28 UNF-2B X .165/.185
DEEP, TAPPED HOLE



10-32 COAXIAL
CONNECTOR.


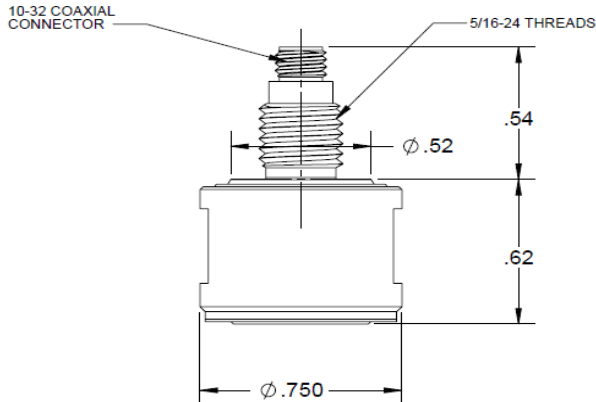
SERIES 6210 IMPACT CAPS
MODEL 6210S, 303 STAINLESS
STEEL (SUPPLIED)
ALSO AVAILABLE:
MODEL 6210A, ALUMINUM ALLOY
MODEL 6210HS, 17-4 PH ST. STEEL

MOUNTING RECOMMENDATIONS
PORT PREPARATION:
DRILL "I" ($\varnothing .272$) THRU
TAP 5/16-24 UNF-2B X
.360 [9] MIN. DEPTH PERF. THREADS

- 3 WRENCH FLATS: 11/16 (.687) ACROSS FLATS X .31 HIGH.
- 2 IT IS IMPORTANT THAT BOTTOM SURFACE OF SENSOR BE IN INTIMATE CONTACT. INSPECT FOR BURRS, ETC.
- 1 PREPARE FLAT SURFACE OVER $\varnothing .62$ [15.8] MINIMUM AREA BY GRINDING, SPOTFACING, LAPPING ETC. THIS AREA MUST BE FLAT WITHIN .001 TIR, TYP BOTH MODELS.



		UNLESS OTHERWISE SPECIFIED: INTERPRET DIM & TOL PER ASME Y14.5M-1994.REMOVE BURRS COUNTERSINKS INTERNAL THDS 90° TO MAJOR DIA CHAM EXT THDS 45° TO MAJOR DIA.THLD LENGTHS AND DEPTHS ARE FOR THDS PER MIL-S- 7742. DIMENSIONS APPLY AFTER FINISHING.	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. DIMENSION IN BRACKETS [] ARE IN MILLIMETERS. TOLERANCES ARE:			CONTRACT NO.		<div>CHATSORTH, CA.</div>									
				INCHES .XX ±.03 XXX ±.010	METRIC X ± 0.8 XX ± 0.25	ANGLES ± 1°			TITLE OUTLINE/INSTALLATION DRAWING, MODEL 1050V FORCE SENSOR								
USED ON	NEXT ASSY																
APPLICATION																	
THIRD ANGLE PROJECTION USA			ALL MACHINED SURFACES TOTAL RUNOUT WITHIN .005 BREAK SHARP EDGES .005 TO .010 MACHINE FILLET RAD. .005 TO .015. WELDING SYMBOLS PER AWS A2.4 ABBREVIATIONS PER MIL-STD-12	MATERIAL		APPROVALS		DATE		SIZE A		CAGE CODE 2W033		DWG. NO. 127-1050V		REV F	
						ORIG	N.C.	1/30/82									
				FINISH		CHK	N.C.	1/30/82									
						APP	N.C.	11/29/05									
			DO NOT SCALE DRAWING			APP			SCALE: NONE		ASHLAR GRAPHITE		SHEET 1 OF 1				

Model Number 1050V2		PERFORMANCE SPECIFICATION				Doc No PS1050V2		
		Force Sensors, IEPE				REV C, ECN 16158, 04/19/21		
		<ul style="list-style-type: none">• DYNAMIC FORCE SENSOR• VOLTAGE MODE• EXCELLENT LINEARITY		This family also includes:				
				Model	Sensitivity (mV/lbf)	Range (lbf) Compressive, Tensile	Max Force (lbf) Compressive, Tensile	Discharge Time Constant (Sec)
				1050V1	500	10, 10	200, 200	>20
				1050V3	50	100, 100	2000, 1000	>100
				1050V4	10	500, 500	10000, 1000	>1000
				1050V5	5	1000, 500	15000, 1000	>1200
				1050V6	1	5000, 500	15000, 1000	>2000
				Refer to the performance specifications of the products in this family for detailed description				
				Supplied Accessories: 1) Accredited Calibration Certificate (ISO 17025) 2) MOD 6210 STEEL IMPACT CAP 3) MOD 6204 1/4-28 MOUNTING STUD				
				Notes: [1] Absolute maximum tension. Do not exceed in any case! [2] Measure using zero-based straight line method, % of F.S. or any lesser range. [3] All specifications are at room temperature unless otherwise specified. [4] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier. [5] In the interest of constant product improvement, we reserve the right to change specifications without notice. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.				
								
				Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-1050V for more information.				

ENGLISH		SI	
1.12	oz	32	grams
Coaxial		Coaxial	
10-32		10-32	
Stainless steel		Stainless steel	
Case grounded		Case grounded	
Quartz		Quartz	
Compression		Compression	

100	mV/lbf	22.5	mV/N
50	lbf	222	N
1000	lbf	4448	N
50	lbf	222	N
1000	lbf	4448	N
.0007	lbf, RMS	0.00311	N RMS
± 1	% Full Scale	± 1	% Full Scale
≥ 75	kHz	≥ 75	kHz
11.4	lbf/μin	1.97	kN/μm

0.03	%/°F	0.05	%/°C
-100 to +250	°F	-73 to +121	°C
10,000	g pk	98,000	m/s ² pk
Epoxy		Epoxy	

2 to 20	mA	2 to 20	mA
18 to 30	VDC	18 to 30	VDC
50	Sec	50	Sec
5	Volts	5	Volts
100	Ω	100	Ω
7.5 to 9.5	VDC	7.5 to 9.5	VDC