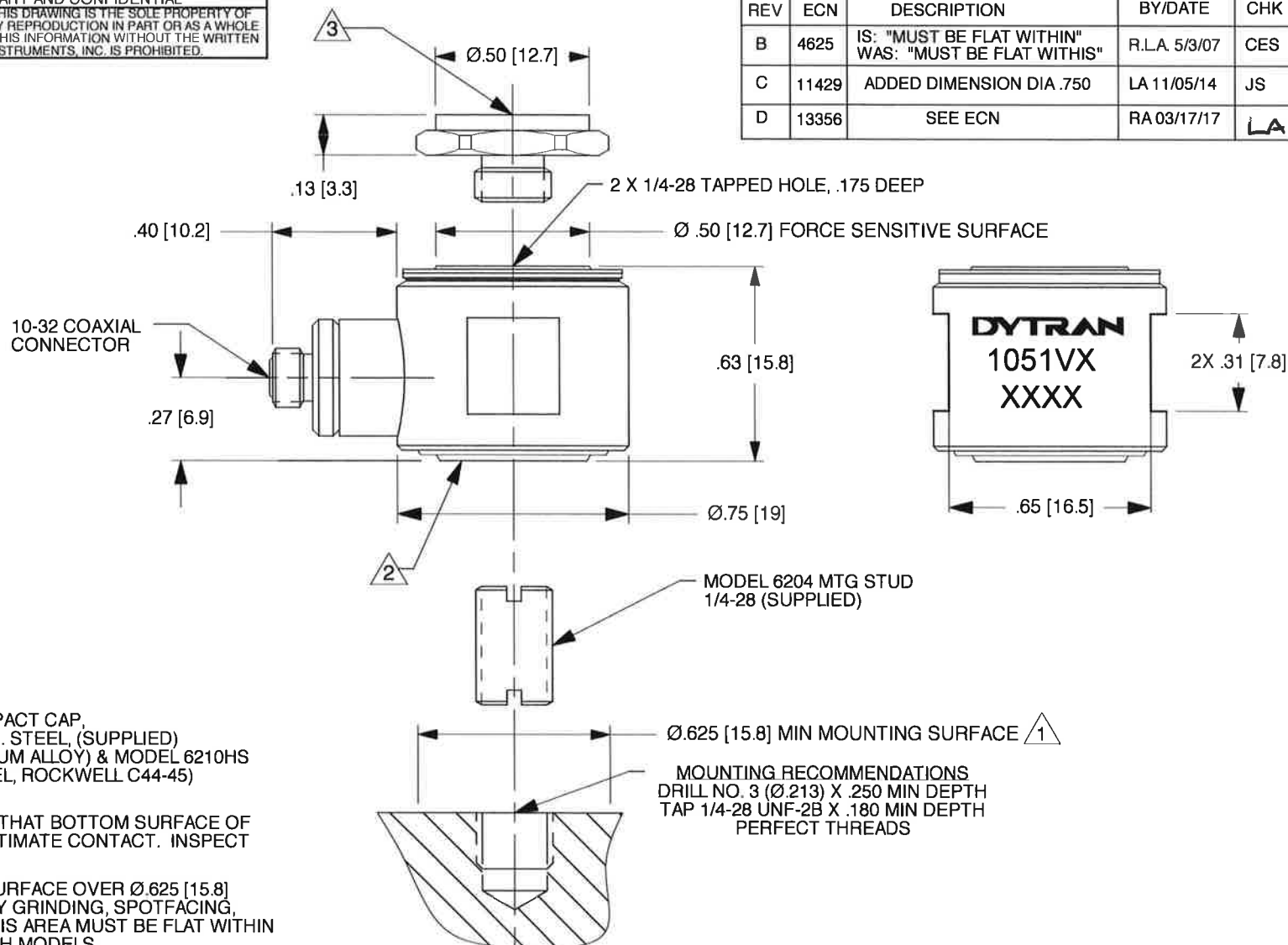


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REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	4625	IS: "MUST BE FLAT WITHIN" WAS: "MUST BE FLAT WITHIS"	R.L.A. 5/3/07	CES	CES
C	11429	ADDED DIMENSION DIA .750	LA 11/05/14	JS	LN
D	13356	SEE ECN	RA 03/17/17	LA	LN


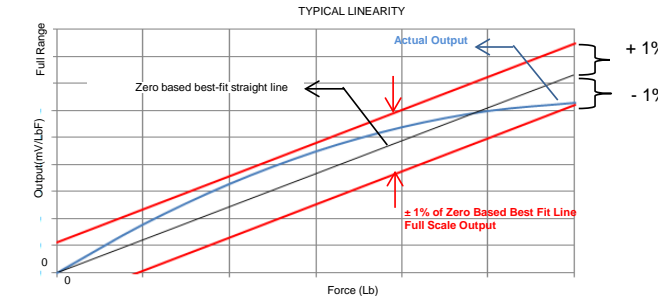
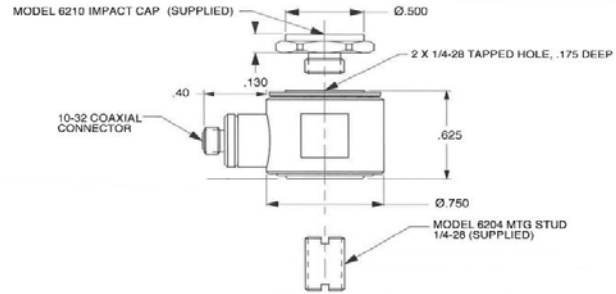



- 3 MODEL 6210S IMPACT CAP,
MATERIAL: 303 ST. STEEL, (SUPPLIED)
MODEL 6210A (ALUM ALLOY) & MODEL 6210HS
(17-4 PH ST. STEEL, ROCKWELL C44-45)
ALSO AVAILABLE
- 2 IT IS IMPORTANT THAT BOTTOM SURFACE OF
SENSOR BE IN INTIMATE CONTACT. INSPECT
FOR BURRS, ETC.
- 1 PREPARE FLAT SURFACE OVER Ø.625 [15.8]
MINIMUM AREA BY GRINDING, SPOTFACING,
LAPPING ETC. THIS AREA MUST BE FLAT WITHIN
.001 TIR, TYP BOTH MODELS.

NOTES: UNLESS OTHERWISE SPECIFIED

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 THD 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: INCHES METRIC ANGLES .XX ±.03 .X ± 0.8 ± 1° .XXX ±.010 .XX ± 0.25		CONTRACT NO.	
USED ON	NEXT ASSY	MATERIAL		APPROVALS	
APPLICATION		FINISH		ORIG	N.C. 1/30/82
THIRD ANGLE PROJECTION USA		DO NOT SCALE DRAWING		CHK	N.C. 1/30/82
ALL MACHINED SURFACES TOTAL RUNOUT WITHIN .005 BREAK SHARP EDGES .005 TO .010 MACHINE FILLET RADI .005 TO .015 WELDING SYMBOLS PER AWS A2.4 ABBREVIATIONS PER MIL-STD-12				APP	LN. 11/19/14
				APP	

ONLY IF IN RED CHATSORTH, CA.					
OUTLINE/INSTALLATION DRAWING, MODEL 1051V					
SIZE	CAGE CODE	DWG. NO.	REV		
A	2W033	127-1051V	D		
SCALE:	NONE	ASHLAR GRAPHITE	SHEET 1 OF 1		

Model Number 1051V6		PERFORMANCE SPECIFICATION						DOC NO PS1051V6																																																	
		DYNAMIC FORCE SENSOR, IEPE						REV C, ECN 15694, 04/12/20																																																	
		<ul style="list-style-type: none">• COMPRESSIVE & TENSILE LOADINGS• EXCELLENT LINEARITY• IEPE, VOLTAGE MODE						This family also includes: <table><tr><th>Model</th><th>Sens. (mV/lbf)</th><th>Compression Range (lbf)</th><th>Max. Compression (lbf)</th><th>Tension Range (lbf)</th><th>Max. Tension (lbf)</th><th>T.C. (sec)</th><th>Resolution (lbf, RMS)</th></tr><tr><td>1051V1</td><td>500</td><td>10</td><td>200</td><td>10</td><td>200</td><td>50</td><td>0.00014</td></tr><tr><td>1051V2</td><td>100</td><td>50</td><td>1000</td><td>50</td><td>500</td><td>100</td><td>0.0007</td></tr><tr><td>1051V3</td><td>50</td><td>100</td><td>2000</td><td>100</td><td>500</td><td>2000</td><td>0.0014</td></tr><tr><td>1051V4</td><td>10</td><td>500</td><td>10000</td><td>500</td><td>500</td><td>2000</td><td>0.007</td></tr><tr><td>1051V5</td><td>5</td><td>1,000</td><td>15000</td><td>500</td><td>500</td><td>2000</td><td>0.014</td></tr></table>		Model	Sens. (mV/lbf)	Compression Range (lbf)	Max. Compression (lbf)	Tension Range (lbf)	Max. Tension (lbf)	T.C. (sec)	Resolution (lbf, RMS)	1051V1	500	10	200	10	200	50	0.00014	1051V2	100	50	1000	50	500	100	0.0007	1051V3	50	100	2000	100	500	2000	0.0014	1051V4	10	500	10000	500	500	2000	0.007	1051V5	5	1,000	15000	500	500	2000	0.014
Model	Sens. (mV/lbf)	Compression Range (lbf)	Max. Compression (lbf)	Tension Range (lbf)	Max. Tension (lbf)	T.C. (sec)	Resolution (lbf, RMS)																																																		
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1051V5	5	1,000	15000	500	500	2000	0.014																																																		
		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] Percent of full scale or any lesser range, zero based best-fit straight line method. [3] Power the device only with constant current type power units. Do not apply power to this system without current limiting. This will destroy the IC amplifier. [4] 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.																																																							
PHYSICAL Weight, Max. Connector Material Sensing Element		<table><tr><th colspan="2">ENGLISH</th><th colspan="2">SI</th></tr><tr><td>1.0</td><td>oz</td><td>28</td><td>grams</td></tr><tr><td>10-32</td><td></td><td>10-32</td><td></td></tr><tr><td>Stainless Steel</td><td></td><td>Stainless Steel</td><td></td></tr><tr><td>Quartz</td><td></td><td>Quartz</td><td></td></tr><tr><td>Compression</td><td></td><td>Compression</td><td></td></tr></table>		ENGLISH		SI		1.0	oz	28	grams	10-32		10-32		Stainless Steel		Stainless Steel		Quartz		Quartz		Compression		Compression																															
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PERFORMANCE Sensitivity, $\pm 10\%$ Compression Range Maximum Compression Tension Range Maximum Tension [1] Resolution Linearity [2] Resonant Frequency, Unloaded Stiffness, Force Sensor		<table><tr><td>1</td><td>mV/lbf</td><td>0.2</td><td>mV/N</td></tr><tr><td>5,000</td><td>lbf</td><td>22241.1</td><td>N</td></tr><tr><td>15,000</td><td>lbf</td><td>66723</td><td>N</td></tr><tr><td>500</td><td>lbf</td><td>2224.1</td><td>N</td></tr><tr><td>500</td><td>lbf</td><td>2224</td><td>N</td></tr><tr><td>0.07</td><td>lbf, rms</td><td>0.31138</td><td>N</td></tr><tr><td>± 1</td><td>% Full Scale</td><td>± 1</td><td>% Full Scale</td></tr><tr><td>>39</td><td>kHz</td><td>>39</td><td>kHz</td></tr><tr><td>11.4</td><td>lbf/μin</td><td>2.0</td><td>kN/μm</td></tr></table>		1	mV/lbf	0.2	mV/N	5,000	lbf	22241.1	N	15,000	lbf	66723	N	500	lbf	2224.1	N	500	lbf	2224	N	0.07	lbf, rms	0.31138	N	± 1	% Full Scale	± 1	% Full Scale	>39	kHz	>39	kHz	11.4	lbf/ μ in	2.0	kN/ μ m																		
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ENVIRONMENTAL Maximum Shock, Unloaded Maximum Vibration, Unloaded Temperature Range Thermal Coefficient Seal		<table><tr><td>10,000</td><td>g pk</td><td>98100</td><td>m/s²</td></tr><tr><td>5,000</td><td>g pk</td><td>49050</td><td>m/s²</td></tr><tr><td>-100 to +250</td><td>°F</td><td>-73 to +121</td><td>°C</td></tr><tr><td>0.03</td><td>%/°F</td><td>0.05</td><td>%/°C</td></tr><tr><td>Epoxy</td><td></td><td>Epoxy</td><td></td></tr></table>		10,000	g pk	98100	m/s ²	5,000	g pk	49050	m/s ²	-100 to +250	°F	-73 to +121	°C	0.03	%/°F	0.05	%/°C	Epoxy		Epoxy																																			
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		Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-1051V for more information.																																																							



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