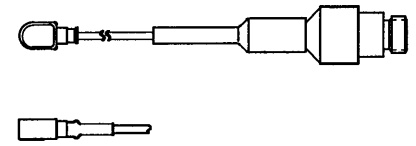
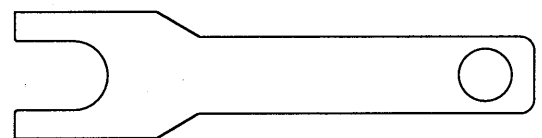
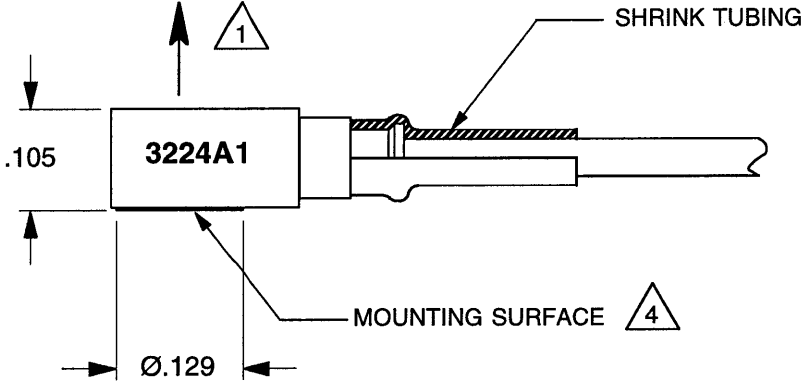
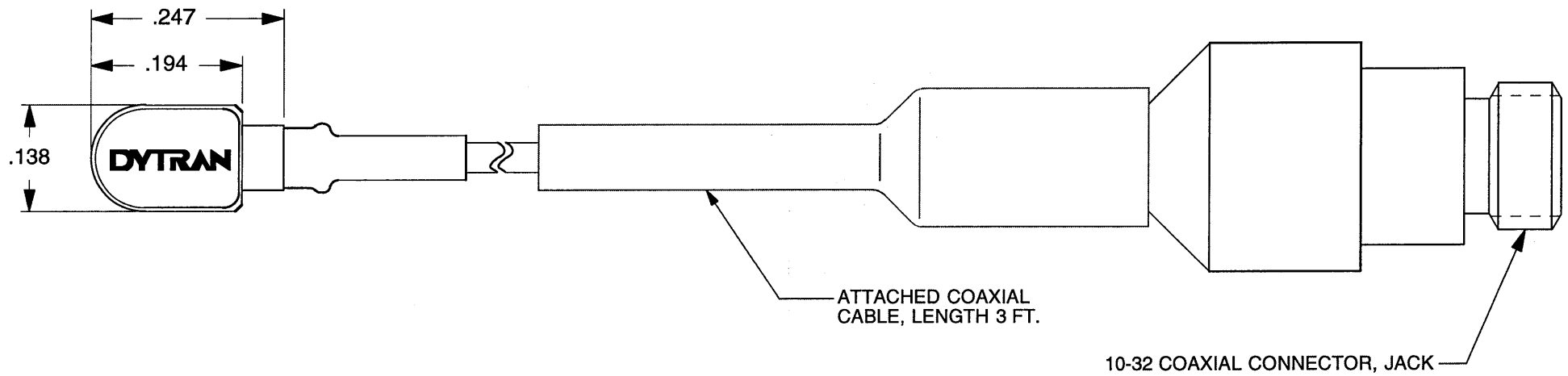


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REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	5406	INITIAL RELEASE	NC/8-11-08	DV	[Signature]



- △ 4. APPLY ADHESIVE TO THIS SURFACE TO MOUNT.
- 3. CASE AND CONNECTOR MATERIAL: TITANIUM.
- 2. WEIGHT LESS CABLE: 0.2 GRAMS.
- △ 1. ARROW INDICATES SENSE AND DIRECTION OF INPUT ACCELERATION FOR POSITIVE GOING OUTPUT SIGNAL.

EXCEPT AS OTHERWISE NOTED,  
 DIMENSIONS ARE IN INCHES

		<h1>MASTER ONLY IF IN RED</h1>		CHATSWORTH, CA.	
SCALE 5X	DESIGN N.C.	DATE 1/15/08			
DRAWN N.C.	DATE 1/15/08	PART NO. MODEL 3224A1			
CHECKED [Signature]	DATE 3/12/08	MAT'L	A		
APPROVED [Signature]	DATE 8-12-08	NEXT ASSEMBLY	USED ON		
TITLE <b>OUTLINE/INSTALLATION DRAWING, MODEL 3224A1 ACCELEROMETER, 10 mV/g</b>			DWG NO. <b>127-3224A1</b>		
			SHEET 1 OF 1		



## SPECIFICATIONS

### MODEL 3224A1 MINIATURE VOLTAGE MODE (IEPE) ACCELEROMETER

SPECIFICATION	VALUE	UNITS
<b>PHYSICAL</b>		
WEIGHT, LESS CABLE	0.2	Grams
SIZE, BODY (WIDTH x LENGTH HEX x HEIGHT)	0.138 x 0.25 x .105	Inches
MOUNTING PROVISION	Flat mounting surface for adhesive mounting	
CONNECTOR, COAXIAL	10-32 Jack at end of fixed 3 ft. cable	
CASE MATERIAL	Titanium	
SENSING ELEMENT	Planar shear piezoceramic	
<b>PERFORMANCE</b>		
SENSITIVITY, NOMINAL [1] [2]	10.0	mV/g
RANGE F.S., FOR ±5V OUT	±500	g's
FREQUENCY RESPONSE, ± 5%	0.4 to 20,000	Hz
FREQUENCY RESPONSE, ± 10 % [3]	1.6 to 30,000	Hz
FREQUENCY RESPONSE, ± 3db	0.15 to 60,000	Hz
MOUNTED RESONANT FREQUENCY, NOM.	95	kHz
BROADBAND RESOLUTION, (1 TO 10,000 HZ)	.017 g's RMS	
SPECTRAL NOISE (1Hz)	5800	μg/√Hz
(10Hz)	1600	μg/√Hz
(100Hz)	530	μg/√Hz
(1 kHz)	200	μg/√Hz
(10kHz)	80	μg/√Hz
AMPLITUDE NON-LINEARITY (ZERO BASED BEST FIT ST.LINE METHOD)	2.0	% F.S., Max.
TRANSVERSE SENSITIVITY, MAX.	2	Percent
STRAIN SENSITIVITY	.05	g's per microstrain @ 250/μσ
<b>ENVIRONMENTAL</b>		
MAXIMUM VIBRATION	900	g's, RMS
MAXIMUM SHOCK	3000	g's, Peak
TEMPERATURE RANGE	-60 to +300	°F
THERMAL COEFFICIENT OF SENSITIVITY	.03	%/°F
ENVIRONMENTAL SEAL	Laser welded, epoxy sealed cable	
<b>ELECTRICAL</b>		
SUPPLY CURRENT/COMPLIANCE VOLTAGE RANGE [3]	2 to 20/+18 to +30	mA/Volts
OUTPUT IMPEDANCE, TYP.	100	Ohms
BIAS VOLTAGE,	+8 to +10	VDC
DISCHARGE TIME CONSTANT, NOM.	1.1	Sec
OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP	Positive	
CASE GROUNDING	Case is grounded to electrical signal/power ground	

#### SUPPLIED ACCESSORIES:

- [1] MODEL 6725 INSTALLATION REMOVAL WRENCH
- [1] [ MODEL 6298 SMALL PETRO WAX

#### NOTES:

- [1] MEASURED AT 100 Hz, 1 G RMS
- [2] ACTUAL SENSITIVITY IS GIVEN ON A CALIBRATION CERTIFICATE TRACEABLE TO NIST, SUPPLIED WITH EACH INSTRUMENT.
- [3] DO NOT APPLY POWER TO THIS DEVICE WITHOUT CURRENT LIMITING, 20 mA MAX. TO DO SO WILL DESTROY THE INTEGRAL IC AMPLIFIER