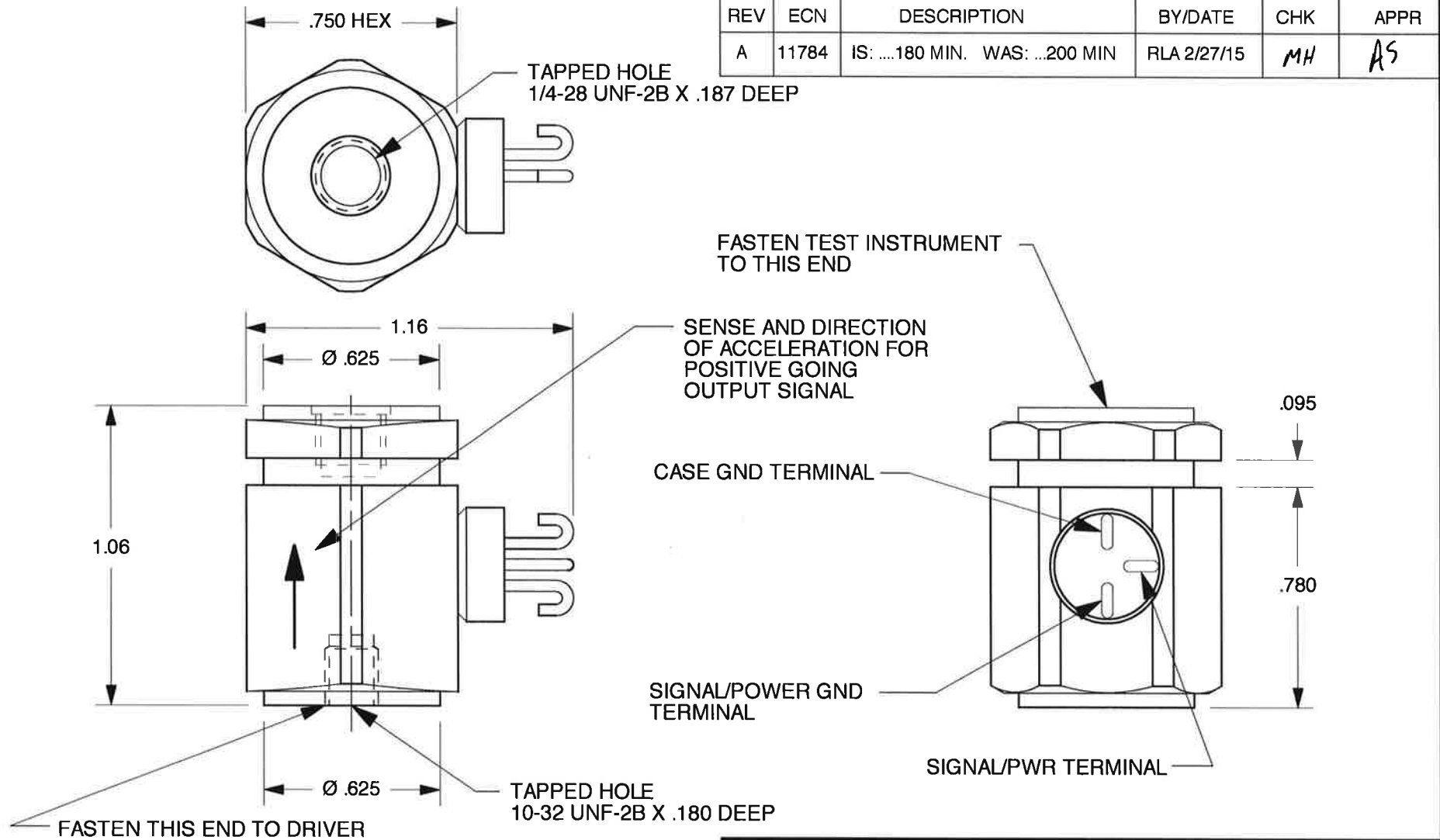


REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	11784	IS: ...180 MIN. WAS: ...200 MIN	RLA 2/27/15	MH	AS



1. WEIGHT - 35 GRAMS
2. MATERIAL: HOUSING-TITANIUM, MOUNTING SURFACE-STAINLESS STEEL

ALL PART NUMBER LETTER SUFFIXES ARE TO BE INTERPRETED AS FOLLOWS:  
 I.E. - 107-0000-01(X)

M - MACHINED ONLY (UNPLATED)  
 P - PLATED/PAINTED  
 H - HEAT TREATED

G - MATERIAL HAS BEEN GRAINED  
 S - MATERIAL HAS BEEN SAWCUT  
 E - ENVIRONMENTAL TEST

**EXCEPT AS OTHERWISE NOTED**

ALL DIMENSIONS IN INCHES  
 TOLERANCE: .XXX = ±      XX = ±

SURFACE FINISH EXCEPT AS NOTED ✓

BREAK EDGES TO DEBURR RADIUS OR CHAMFER

△ THESE DIAS ⊙ TO T.I.R.

FILLETS -      MAX RAD.

# MASTER

ONLY IF IN RED CHATSWORTH, CA.

SCALE	4X	REV	A	DATE	02/27/15	ECN	11784
DATE	7/1/96	PART NO.					
DRAWN	D.Z.	CHECKED	N.C.	MATERIAL			
APPROVED	N.C.	7/1/96	NEXT ASSEMBLY			USED ON	
TITLE						MODEL 3038A	
<b>OUTLINE/INSTALLATION DRAWING, MODEL 3038A</b>						DWG NO.	
						<b>127-3038A</b>	
						SHEET OF 1	

## SPECIFICATIONS

### MODEL 3038A VIBRATION CALIBRATION ACCELEROMETER

SPECIFICATION	VALUE	UNITS
SENSITIVITY, $\pm 10\%$	10.0	mV/G
RANGE, ACCELERATION, FOR $\pm 5$ V OUT	500	G
RANGE, FORCE-LBS	40	FORCE-LBS
FREQUENCY RESPONSE, $\pm 5\%$ [1]	1 to 10,000	Hz
LINEARITY	$\pm 1$	% FS
TRANSVERSE SENSITIVITY, MAX	3	%
DISCHARGE TIME CONSTANT	0.5	SEC.
EQUIVALENT NOISE FLOOR	.007	G
RESISTANCE, GND PIN TO CASE, MIN.	10	MEGOHMS
DC BIAS LEVEL OF INTERNAL IC AMPLIFIER	10	VDC
OUTPUT IMPEDANCE OF INTEGRAL AMPLIFIER	100	OHMS
INPUT CURRENT RANGE [2]	2-5	mA
COMPLIANCE VOLTAGE	+18 to +30	VDC
TEMPERATURE RANGE	-65 to +250	DEG F
COEFFICIENT OF THERMAL SENSITIVITY	.03	%/DEG F
HOUSING MATERIAL (NON-MAGNETIC)	TITANIUM	
ELECTRICAL CONNECTOR, TRANSVERSE MTD.	3-PIN SOLDER TERMINAL HEADER	
MOUNTING HOLES: TOP	1/4-28	UNF-2B
BOTTOM	10-32	UNF-2B
WEIGHT	35	GRAMS
HEIGHT X HEX	1.18 X .75	IN

[1] THIS SPECIFICATION VALID ONLY WITH TEST ACCELEROMETER MASS OF UP TO 20 GRAMS. MASS LOADING CURVES MUST BE CONSTRUCTED TO MAKE UP FOR CHANGES IN RESPONSE DUE TO MASS LOADING OF ACCELEROMETER.

[2] MUST BE USED WITH CONSTANT CURRENT TYPE POWER SOURCE. DO NOT CONNECT POWER SOURCE TO ACCEL. WITHOUT CURRENT LIMITING. THIS WILL DESTROY THE INTERNAL AMPLIFIER.