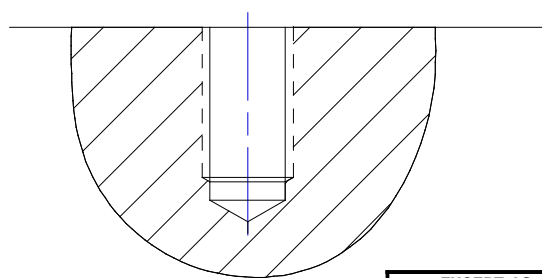


PORT PREPARATION:
 PREPARE FLAT SURFACE OVER .560 MIN.
 DIAMETER, FLAT TO .0005 TIR.
 AT CENTER, DRILL #3 (Ø.213) X .475 DEEP, MIN.
 TAP 1/4-28 UNF-2B X .425 DEEP, MIN.



1 THE CONNECTOR SHELL (SIG/PWR GROUND) IS ISOLATED FROM THE BODY OF THE ACCELEROMETER BY > 10 MEGOHMS.

EXCEPT AS OTHERWISE NOTED

ALL DIMENSIONS IN INCHES
 TOLERANCE: .XXX = ± .005 .XX = ± .01

SURFACE FINISH EXCEPT AS NOTED ✓

BREAK EDGES TO DEBURR RADIUS OR CHAMFER

△ THESE DIAS ⊙ TO T.I.R.

FILLETS - MAX RAD.

DYTRAN INSTRUMENTS, INC.		CHATSWORTH, CA.			
SCALE	2X	REV	-	DATE	-
DATE	5/13/99	PART NO.	MODEL 3045A		
DRAWN	N.C.	CHECKED	R.A.		
APPROVED	NEXT ASSEMBLY		USED ON	3045A	
TITLE			DWG NO.		
OUTLINE/INSTALLATION DRAWING, MODEL 3045A			127-3045A		
SHEET 1 OF 1					

SPECIFICATIONS
MODEL 3045A LIVM ACCELEROMETER

SPECIFICATION	VALUE	UNITS
PHYSICAL		
WEIGHT	20	Grams
SIZE, HEX x HEIGHT	.625 x 1.2	Inches
MOUNTING PROVISION	1/4-28 UNF-2A X .375 long, integral stud	
CONNECTOR, AXIALLY MOUNTED	10-32	Coaxial
MATERIAL, BASE, CAP & CONNECTOR	300 Series	Stainless Steel
PERFORMANCE		
SENSITIVITY, $\pm 5\%$ [1]	5	mV/G
RANGE F.S. FOR ± 5 VOLTS OUTPUT	± 1000	G's
FREQUENCY RANGE, ± 3 db	1.6 to 2500	Hz
FREQUENCY RANGE, $\pm 5\%$	4.8 to 1800	Hz
FILTER ROLLOFF RATE	12	db/OCTAVE
FILTER CORNER FREQUENCY	2500	Hz
RESONANT FREQUENCY, NOM.	35	kHz
EQUIVALENT ELECTRICAL NOISE FLOOR	.007	G's RMS
LINEARITY [2]	$\pm 1\%$	% F.S.
TRANSVERSE SENSITIVITY, MAX.	5	%
STRAIN SENSITIVITY	.002	G's/ μ @ 250 μ
ENVIRONMENTAL		
MAXIMUM VIBRATION/SHOCK	1000/2000	\pm G's/G's PEAK
TEMPERATURE RANGE	-420 to +300	$^{\circ}$ F
SEAL, HERMETIC	Glass-to-metal and TIG welded	
COEFFICIENT OF THERMAL SENSITIVITY	.03	%/ $^{\circ}$ F
LOOSE PARTICLE DETECTION, VIBRATION/SHOCK	5 to 10/200	G's/G's Peak
ELECTRICAL		
SUPPLY CURRENT/COMPLIANCE VOLTAGE [3]	2 to 4/+28	mA/Volts
OUTPUT IMPEDANCE, TYP.	100	Ohms
BIAS VOLTAGE, +10.5 VOLTS, NOM.	+9 to +12	VDC
DISCHARGE TIME CONSTANT, NOM.	0.1	Sec
OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP		Positive
ELECTRICAL ISOLATION, CASE GROUND TO MOUNTING SURFACE		10 Megohms, min.

[1] Measured at 100 Hz, 1 G RMS per ISA RP 37.2.

[2] Measured using zero-based best straight line method, %F.S., or any lesser range.

[3] Do not apply power to this device without current limiting, 20 mA MAX. To do so will destroy the integral IC amplifier.