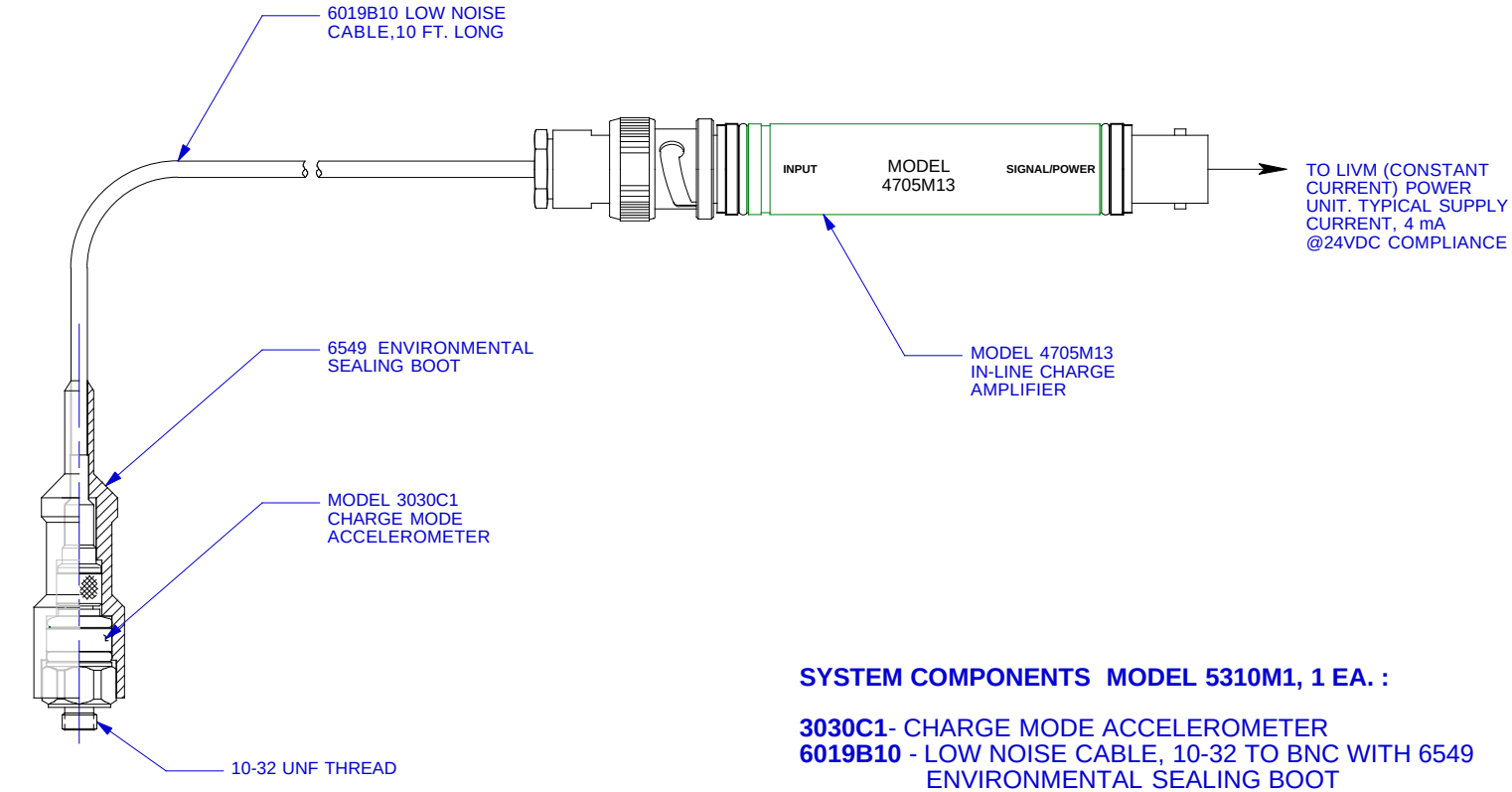
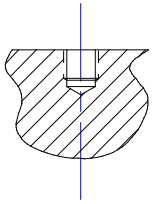


SYSTEM COMPONENTS MODEL 5310M1, 1 EA. :

3030C1- CHARGE MODE ACCELEROMETER
6019B10 - LOW NOISE CABLE, 10-32 TO BNC WITH 6549 ENVIRONMENTAL SEALING BOOT
4705M13 - IN-LINE CHARGE AMPLIFIER



PORT PREPARATION:
PREPARE FLAT SURFACE OVER Ø .500 AREA.
AT CENTER DRILL #21(Ø .159) X .25 DEEP MIN
BOTTOM TAP #10-32 UNC-2B X .150 DEEP MIN

ALL PART NUMBER LETTERSUFFIXES ARE TOBE INTERPRETED ASFOLLOWS:
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 = ± .005 .XX= ± .01
SURFACE FINISH EXCEPT AS NOTED 63
BREAK EDGES TO DEBURR RADIUS OR CHAMFER .003
△ THESE DIAS (o) TO T.I.R.
FILLETS - .005 MAX RAD.

DYTRAN INSTRUMENTS, INC. CHATSWORTH, CA.

SCALE	1X	REV	-	DATE	-	ECN	-
DATE	7/1/99	PART NO.	MODEL 5310M1				
DRAWN	N.C.	CHECKED	R.A.	MAT'L			
APPROVED		NEXT ASSEMBLY		USED ON	5310M1		

TITLE
OUTLINE/INSTALLATION DRAWING, SYSTEM MODEL 5310M1

DWG NO. **127-5310M1**

SHEET 1 OF 1

DYTRAN INSTRUMENTS, INC.

PERFORMANCE SPECIFICATION
MODEL 5310M1 HIGH TEMPERATURE VIBRATION MEASUREMENT SYSTEM

SPECIFICATION	VALUE	UNITS
PHYSICAL		
WEIGHT, accelerometer	6.8	grams
WEIGHT, charge amplifier	40	grams
MOUNTING PROVISION, integral stud	10-32	
CABLE LENGTH, from accel to charge amplifier	10	feet
CABLE TYPE	low noise coaxial	
CHARGE AMPLIFIER CONNECTOR	BNC JACK	
MATERIAL, ACCELEROMETER	316L CRES	
PERFORMANCE (SYSTEM)		
SENSITIVITY [1] ±10%	10	mV/g
RANGE F.S. FOR ± 5 VOLTS OUTPUT	± 500	gpk
FREQUENCY RANGE, ± 5%	10 to 10,000	Hz
RESONANT FREQUENCY, NOM.	30	kHz
LINEARITY [2]	± 2%	% F.S.
TRANSVERSE SENSITIVITY, MAX.	5	%
ENVIRONMENTAL		
MAXIMUM VIBRATION	600	g pk
MAXIMUM SHOCK	3000	g pk
TEMPERATURE RANGE (ACCELEROMETER)	-100 to +500	°F
	-73 to 260	°C
TEMPERATURE RANGE (CHARGE AMPLIFIER)	-50 to +185	°F
	-46 to 85	°C
SEAL, (ACCELEROMETER & CHG. AMP) HERMETIC	Ceramic-to-metal and laser welded	
COEFFICIENT OF THERMAL SENSITIVITY	.03	%/°F
ELECTRICAL		
SUPPLY CURRENT [3]	2 to 20	mA
COMPLIANCE VOLTAGE RANGE	+14 to +30	Volts
OUTPUT IMPEDANCE, TYP.	100	Ω
BIAS VOLTAGE	8 to 12	VDC
DISCHARGE TIME CONSTANT	0.05 – 0.15	Sec
OUTPUT SIGNAL POLARITY For acceleration toward top	Positive	

[1] Measured at 100 Hz, 1 g rms per ISA RP 37.2.
[2] Measured using zero-based best straight line method, % of F.S. or any lesser range.
[3] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.