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DWG NO 127-2300V

SH 1 REV C

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REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	9202	CONVERTED FROM ASHLAR TO SOLIDWORKS	AB 10/01/12	JS	DV
C	9256	ADDED DIMENSIONS: ZONE C2 .03, .24, AND .25	AB 10/10/12	JS	DV

10-32 COAXIAL CONNECTOR

1.36 [34.47]

5/16 HEX

5/16-24 UNF-2A THD

ϕ .249

ϕ .247

ϕ .217

ϕ .215

6600 SEAL, BRASS

.24 [6.02]

.46 [11.73]

.83 [21.13]

MODEL 6502 ADAPTOR
SHOWN WITH 2300V
PROBE INSTALLED

7/16 HEX

.03 [0.64]

.24 [6.02]

3/8-24 THD

.25 [6.23]

.31 [7.87]

.78 [19.81]

THIS CORNER SHARP
TO R.003 MAX

THIS CORNER SHARP
TO R.003 MAX

32

.220 FOR FLUSH
DIAPHRAGM

(.780)

PORT PREPARATION INSTRUCTIONS, 2300V

1. DRILL AND REAM ϕ .221 +.001/.000 THRU
2. \square ϕ .250 +.003/-.000 X .560 ∇
3. DRILL ϕ .272 +.003/-.000 X .500 ∇
4. BOTTOM TAP 5/16-24 UNF-2B X .440 MIN DEPTH

PORT PREPARATION INSTRUCTIONS, 6502

1. DRILL ϕ .332 THRU (OR .450 MIN DEPTH)
2. TAP 3/8-24 UNF-2B X .350 MIN ∇
3. \square ϕ .437 +.003/-.000 X .030 ∇

UNLESS OTHERWISE SPECIFIED:
INTERPRET DIM & TOL PER
ASME Y14.5M - 1994.
REMOVE BURRS.
COUNTERSINK INTERNAL THDS
90° TO MAJOR DIA.
CHAM EXT THDS 45° TO MINOR DIA.
THD LENGTHS AND DEPTHS ARE FOR
MIN FULL THDS.
DIMENSIONS APPLY AFTER FINISHING.

ALL MACHINED SURFACES.
TOTAL RUNOUT WITHIN .005.
BREAK SHARP EDGES .005 TO .010.
MACHINED FILLET RADII .005 TO .015.
WELDING SYMBOLS PER AWS A2.4.
ABBREVIATIONS PER MIL-STD-12.

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES.
DIMENSIONS IN BRACKETS [] ARE IN
MILLIMETERS TOLERANCES ARE:

DECIMALS	METRIC	ANGLES
.XX ±.03	.X ±0.8	±1°
.XXX ±.010	.XX ±0.25	

APPROVALS		DATE
ORIG	AB	10/03/12
CHK	JS	10/12
APP	DV	10/12

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION
USA

DYTRAN MASTER
INSTRUMENTS, INC. Chatsworth, CA
ONLY IF IN RED

TITLE: **OUTLINE/INSTALLATION
DRAWING, MODEL 2300V**

SIZE	CAGE CODE	DWG NO	REV
B	2W033	127-2300V	C

2. MOUNTING TORQUE FOR 6502 ADAPTOR: 50-60 LB-INCHES.
1. MOUNTING TORQUE FOR 2300V PROBE: 30 LB-INCHES.
NOTES: UNLESS OTHERWISE SPECIFIED

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SHEET 1 OF 1



**SPECIFICATIONS, MODEL SERIES 2300V
HIGH FREQUENCY PROBE TYPE PRESSURE SENSORS**

COMMON SPECIFICATIONS	VALUE	UNITS
RESONANT FREQUENCY, NOM.	500	kHz
SENSITIVITY RANGE	0.33 to 20	mV/PSI
ACCELERATION SENSITIVITY	.001	PSI/G
LINEARITY	± 1	%
TEMPERATURE RANGE [1]	-100 to +250	°F
COEFFICIENT OF THERMAL SENSITIVITY	.03	%/°F
TIME CONSTANT RANGE	2.0 to 100.0	Seconds
OUTPUT IMPEDANCE, NOM	150	OHMS
BIAS VOLTAGE OF INTEGRAL AMPLIFIER	+7.5 to +9.5	VOLTS
BIAS REQUIREMENTS	+7.5 to +9.5	VOLTS
MAXIMUM SHOCK	10,000	G's
MAXIMUM VIBRATION	± 5000	G's
MAXIMUM PRESSURE (DIAPHRAGM BURST)	18,000	PSI
SUPPLY CURRENT RANGE	2 to 20	mA
COMPLIANCE (SUPPLY) VOLTAGE RANGE [2]	+18 to +30	VDC
MATERIAL, HOUSING/DIAPHRAGM	17-4ph /316L	ST. STEEL
MOUNTING 2300V SERIES	EXTERNAL 5-16/24 THREADS	
CONNECTOR	10-32	COAXIAL
ENVIRONMENTAL SEAL	WELDED, GLASS TO METAL	HERMETIC
WEIGHT	6	GRAMS

SPECIFICATIONS FOR SPECIFIC MODELS

MODEL	RANGE (PSI)	SENSITIVITY (mV/PSI)	MAX. PRESS (PSI) [3]	ELECT NOISE (Psi)	DISCHARGE TIME CONSTANT (SECONDS)	-3db LOW FREQ. (Hz)
2300V1	250	20 (± 15%)	5000	0.004	2.0	0.08
2300V3	500	10 (± 15%)	10,000	0.007	5.0	0.03
2300V4	1000	5 (± 20%)	10,000	0.014	10.0	0.02
2300V5	5000	1 (± 20%)	15,000	0.07	50.0	0.003
2300V6	10,000	0.5 (± 20%)	15,000	0.14	100.0	0.0016
2300V7	15,000	0.33 (± 20%)	18,000	0.21	5.0	0.03

NOTES:

- [1] Maximum flash temperature +3000°F, short duration
- [2] From current limiting power unit only. **Do not** power up without current limiting power unit.
- [3] Refers to maximum pressure before possibility of damage to internal electronics.