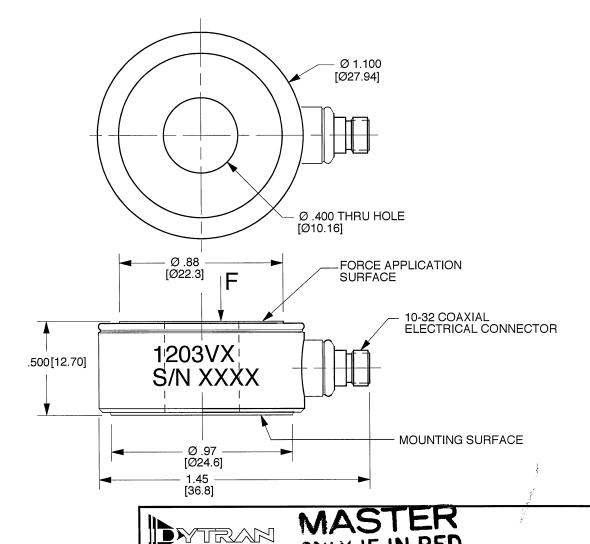
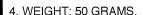
DYTRAN PROPRIETARY AND CONFIDENTIAL			
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF			
DYTRAN INSTRUMENTS, INC. AND ANY REPRODUCTION IN PART OR AS A WHOLE OR ANY OTHER DISSEMINATION OF THIS INFORMATION WITHOUT THE			
WRITTEN PERMISSION OF DYTRAN INSTRUMENTS, INC. IS PROHIBITED.			
MODEL	SENSITIVITY	TC (SEC)	RANGE F.S.
MODEL	OLIVOITIVITI	10 (020)	TIANGE 1.0.
1203V1	50 mV/Lb	90	100 Lb
1203V2	10 mV/Lb	450	500 Lb
120372	10 IIIV/LD	450	300 Lb
1203V3	5 mV/Lb	850	1000 Lb
1203V4	1 mV/Lb	1800	5000 Lb
1203V5	0.5 mV/Lb	1800	10,000 Lb

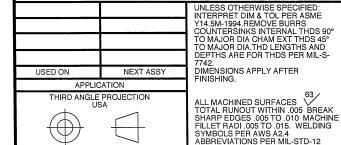
REVECNDESCRIPTIONBY/DATECHKAPPRA8074UPDATED FORMATRA, 11/17/11J5





- 3. ENVIRONMENTAL SEAL: HERMETIC.
- 2. MATERIAL: LOAD-BEARING SURFACES: HARDENED 17-4 PH STAINLESS STEEL. HOUSING AND CONNECTOR: 300 SERIES STAINLESS STEEL.
- 1. POLARITY: POSITIVE-GOING WITH COMPRESSION.

# NOTES: UNLESS OTHERWISE SPECIFIED



UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES. DIMENSION
IN BRACKETS [] ARE IN MILLIMETERS.
TOLERANCES ARE:
INCHES METRIC ANGLES
.XX ±03 .X ±0.8 ±1°
.XXX ±010 .XX ±0.25

DO NOT SCALE DRAWING

**FINISH** 

| DESIGN | DATE | 10-10-07 | | DATE | 10-10-07 | | DATE | 12/17/01 | PART NO. | MODEL SERIES 1203V | DATE | 12/17/01 | PART NO. | MODEL SERIES 1203V | DATE | 08/01/06 | MAT'L | O8/01/06 | MAT'L | USED ON | N.C. | O8/01/06 | O8/01/0

INSTRUMENTS, INC.

ITLE

ONLY IF IN RED

OUTLINE/INSTALLATION DRAWING, MODEL SERIES 1203V FORCE SENSORS

DWG NO. 127-1203V

SERIES 1203V

Α

CHATSWORTH, CA.

SHEET 1 OF 1

 
 Model Number 1203V2
 PERFORMANCE SPECIFICATION
 Doc No PS1203V2

 Force Sensors, IEPE
 REV B, ECN 8761, 08/20/12

mV/N

kN

kN

Seconds

kN. rms

m/s^2

m/s^2 Peak

% Full Scale

kHz

kN/µm



• RING STYLE FORCE SENSOR

ΟZ

- HERMETICALLY SEALED
- EXCELLENT LINEARITY

W: XXXX	- Carlle
PHYSICAL	
Weight, Max.	
Connector [1]	Type
	Material
Housing	Material
	Isolation

Material Mode

ENGLISH
•
1.75
10-32
Stainless steel
Stainless steel
Case grounded
Quartz
Compression

SI	
	-
50	grams
10-32	
Stainless steel	
Stainless steel	
Case grounded	
Quartz	
Compression	
	-

2.47

2.22

4.45

450

6.23E-07

98,100

49,050

± 1

>75

3.46

#### PERFORMANCE

Sensing Element

Sensitivity, ± 10 % Compression Range Maximum Compression Discharge Time Constant Broadband Resolution Maximum Unloaded Shock Maximum Unloaded Vibration Linearity [2] Resonant Frequency Stiffness

### ENVIRONMENTAL

Coefficient Of Thermal Sensitivity Operating Temperature Environmental Seal

## ELECTRICAL

Supply current
Voltage Range [3]
Full Scale Output Voltage
Output Impedence
Bias Voltage

10	mV/Lb
500	Lb Force
1,000	Lb Force
450	Seconds
0.00014	Lb, rms
10,000	g's
5,000	g's,Peak
± 1	% Full Scale
>75	kHz
20	Lb/µin

0.03	%/°F
-100 to +250	°F
Hermetic	

2 to 20	mA
18 to 30	VDC
5	Volts
<100	Ω
7.5 to 9.5	VDC

	_
0.05	%/°C
-73 to +121	°C
Hermetic	

2 to 20 18 to 30	mA VDC
5	Volts
<100	Ω
7.5 to 9.5	VDC

### This family also includes:

Model	Sensitivity (mV/Lb)	Range (Lbs.Force)	Max.Force (Lbs.Force)	Discharge T.C. (sec)
1203V1	50	100	200	90
1203V3	5	1,000	5,000	850
1203V4	1	5,000	10,000	1800
1203V5	0.5	10,000	15,000	1800

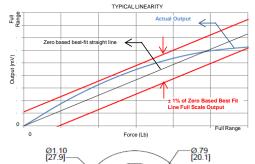
Please refer to the performance specifications of the products in this family for detailed description

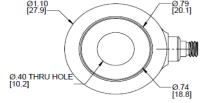
### Supplied Accessories:

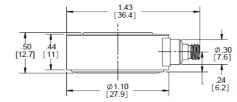
1) Accredited calibration certificate (ISO 17025)

#### Notes

- [1] Radially mounted with 10-32 receptacle micro coaxial connector
- [2] Percent of full scale or any lesser range, Zero based best-fit sraight line method.
- [3] Power these instruments only with constant current type power units. Do no connect to a source of voltage without current limiting. This will destroy the integral IC amplifier.







Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-1203V for more information.

