

1. WEIGHT-48 GRAMS

IDYTRAN INSTRUMENTS, INC.		CHATSWORTH, CA.		
SCALE	2X	REV	DATE	ECN
DATE	5/9/05	PART NO. MOD 3148E		
DRAWN	N.C.	CHECKED	D.Z.	
APPROVED	NEXT ASSEMBLY		USED ON	3148E
TITLE			DWG NO.	
OUTLINE/INSTALLATION DRAWING, MODEL 3148E			127-3148E	
SHEET 1 OF 1				



- BNC RADIAL CONNECTOR
- BASE ISOLATED

PHYSICAL

Weight, Max
Connector, Type
Mounting Provision
Material, Housing/Connector
Sensing Element

ENGLISH		SI
1.7	oz	48
BNC, Radially Mounted		grams
Tapped 10-32 Hole		BNC, Radially Mounted
300 Series S.S.		Tapped 10-32 Hole
Ceramic		300 Series S.S.
		Ceramic

PERFORMANCE

Sensitivity, ±2% [1]
Range for ± 5 Volts Output
Frequency Response, ± 5%
Resonant Frequency
Broad Band Resolution
Linearity [2]
Maximum Transverse Sensitivity
Strain Sensitivity @ 250µε

100	mV/g	10	mV/m/s ²
±50	g	±491	m/s ²
0.5 to 5000	Hz	0.5 to 5000	Hz
> 26	kHz	> 26	kHz
0.0007	Grms	0.007	m/s ² rms
±2	% F.S.	±2	% F.S.
5	%	5	%
0.001	g/µε	0.01	m/s ² /µε

ENVIRONMENTAL

Maximum Vibration
Maximum Shock
Temperature Range
Seal

±600	Gpeak	±5886	m/s ² peak
±3000	Gpeak	±29430	m/s ² peak
-60 to +250	°F	-51 to +121	°C
Epoxy		Epoxy	

ELECTRICAL

Supply Current Range [3]
Compliance Voltage Range
Output Impedence, Max
Bias Voltage
Discharge Time Constant
Electrical Isolation

2 to 20	mA	2 to 20	mA
+18 to +30	Volts	+18 to +30	Volts
150	Ω	150	Ω
+11 to +13	VDC	+11 to +13	VDC
0.9 to 2.0	Sec	0.9 to 2.0	Sec
10	GΩ,min	10	GΩ,min

This family also includes:

Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)

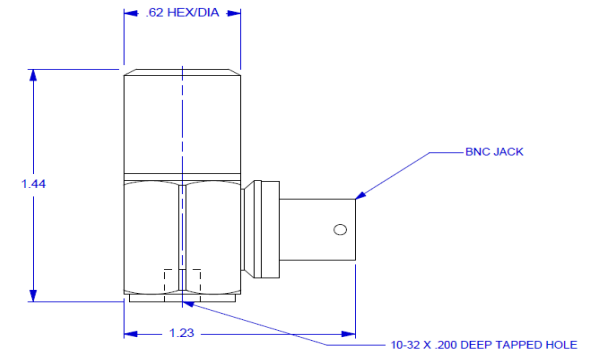
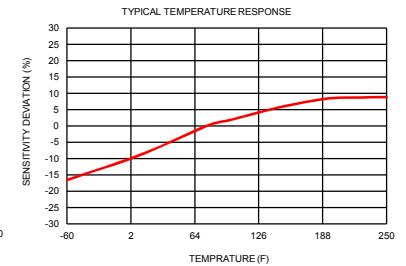
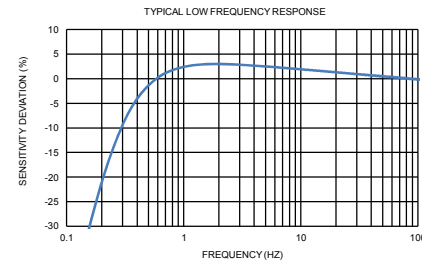
Refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Mounting Scew, Model 6200S, Qty: 1
- 3) Thermal Boot, Model 6292, Qty: 1

Notes:

- [1] Measured at 100Hz, 1 Grms per ISA RP 37.2.
- [2] Measure using zero-based 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.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3148E for more information.

