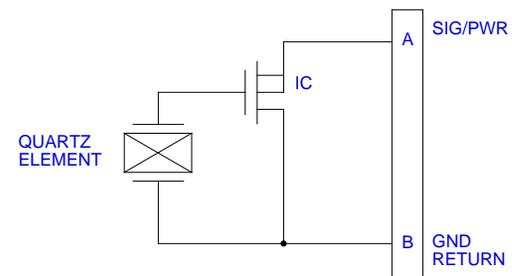


ARROW INDICATES SENSE OF DIRECTION OF ACCELERATION FOR POSITIVE GOING OUTPUT SIGNAL

MOUNTING PREPARATION
 PREPARE FLAT SURFACE (TO .001TIR)
 NEXT DRILL #3 (.213) DIA X .250 DEEP
 BOTTOM TAP 1/4-28 UNF-2B X .200 MIN
 THREAD DEPTH



SCHEMATIC DIAGRAM

1. WEIGHT - 107 GRAMS

ALL PART NUMBER LETTERSUFFIXES ARE TO BE INTERPRETED AS FOLLOWS:
 I.E. - 107-0000-01 (X)
 M - MACHINED ONLY (UNPLATED) G - MATERIAL HAS BEEN GRAINED
 P - PLATED/PAINTED S - MATERIAL HAS BEEN SAWCUT
 H - HEAT TREATED E - ENVIRONMENTAL TEST

EXCEPT AS OTHERWISE NOTED
 ALL DIMENSIONS IN INCHES
 TOLERANCE: .XXX ± .XX ±
 SURFACE FINISH ✓
 EXCEPT AS NOTED
 BREAK EDGES TO DEBURR
 RADIUS OR CHAMFER
 THESE DIAS ⊙ TO T.I.R.
 FILLETS - MAX RAD.

		CHATSORTH, CA.							
		SCALE	1X	REV	-	DATE	-	ECN	-
DATE		5-16-96		PART NO.					
DRAWN		N.C.		CHECKED		D.Z.		MAT'L	
APPROVED		NEXT ASSEMBLY				USED ON			
TITLE						DWG NO.			
OUTLINE/INSTALLATION MODEL 3187D						127-3187D			
						SHEET 1 OF 1			

Model Number 3187D	PERFORMANCE SPECIFICATIONS	DOC NO PS3187D
IEPE SINGLE AXIS ACCELEROMETER		REV A, ECN 14750, 01/08/19



- **ELECTRICALLY ISOLATED**
- **HERMETICALLY SEALED**

PHYSICAL

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

Type

ENGLISH		SI	
4	oz	122	grams
2 -PIN, MS3102A-10SL-4P		2 -PIN, MS3102A-10SL-4P	
1/4-28 TAPPED HOLE X .20		1/4-28 TAPPED HOLE X .20	
300 SERIES SS		300 SERIES SS	
Ceramic		Ceramic	
Planar Shear		Planar Shear	

PERFORMANCE

Sensitivity, ±5% [1]
Range for ± 5 Volts Output
Frequency Response, ±5%
Frequency Response, ±3dB
Resonant Frequency
Equivalent Electrical Noise Floor
Linearity [2]
Maximum Transverse sensitivity
Strain Sensitivity @ 250µε

500	mV/g	51	mV/m/s ²
10	g peak	98	m/s ²
0.48 to 1000	Hz	0.48 to 1000	Hz
.16 to 3000		.16 to 3000	
> 15	kHz	> 15	kHz
0.00002	Grms	0.000	m/s ² rms
± 2	% F.S.	± 2	% F.S.
5	%	5	%
0.001	g/µε	0.010	m/s ² /µε

ENVIRONMENTAL

Maximum Vibration
Maximum Shock
Operating Temperature Range
Seal

20	g peak	196	m/s ² peak
3000	g peak	29430	m/s ² peak
-60 to +250	°F	-51 to 121	°C
Hermetic		Hermetic	

ELECTRICAL

Supply Current Range [3]
Compliance Voltage Range
Output Impedence, Typ
Bias Voltage
Discharge Time Constant
Electrical Isolation (Pwr/Signal Ground to Case Isolation)

2 to 10	mA	2 to 10	mA
+18 to +30	Volts	+18 to +30	Volts
200	Ω	200	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 (V/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)

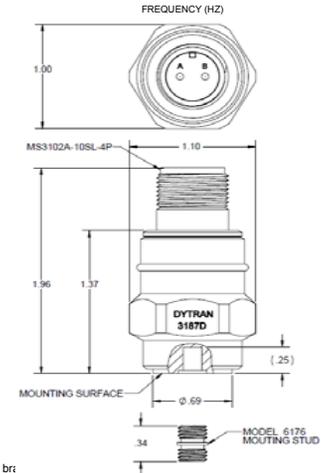
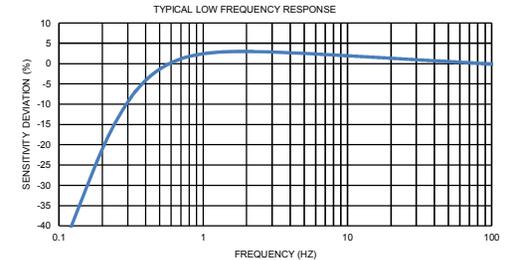
Refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Model 6176, 1/4-28 Mounting Stud

Notes:

- [1] Measured at 100Hz, 1 grms per ISA RP 37.2.
- [2] Measured 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 amplifier.
- [4] In the interest of constant product improvement, we reserve the right to change specifications without notice.



Units on the line drawing are in inches, units in brackets are in millimeters.



21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax: 818.700.7880 www.dytran.com
For permission to reprint this content, please contact info@dytran.com