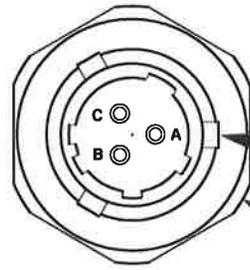


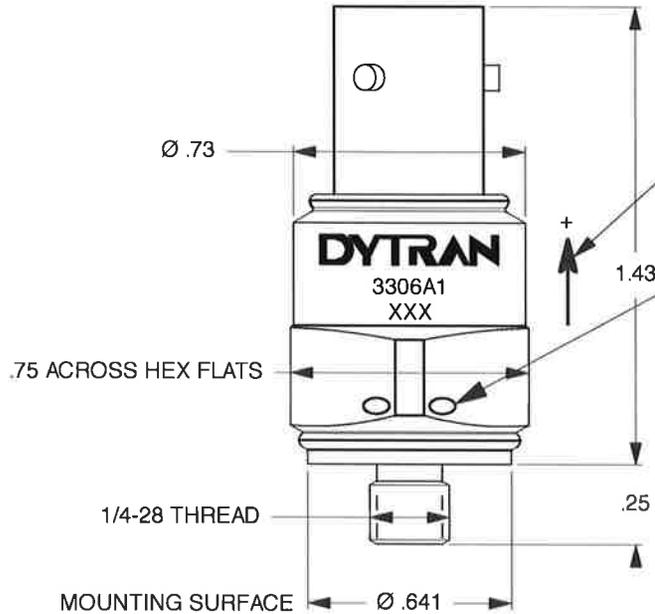
REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
C	12594	ADDED NOTE 7	JS 03/31/16	LA	AS

PINOUT:
 PIN A-CASE GROUND
 PIN B-SIG/PWR GND RET
 PIN C-SIG/PWR



3-PIN BAYONET STYLE
 MS3443H898PN CONNECTOR,
 HERMETIC. SEE NOTE 6 FOR MATING
 CONNECTOR SUGGESTIONS.

Ø .811, HEX CORNERS



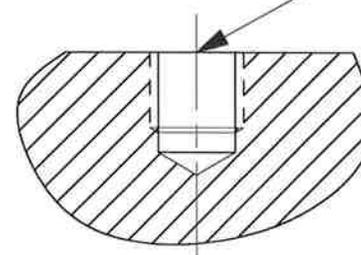
ARROW INDICATES SENSE AND
 DIRECTION OF ACCELERATION FOR
 POSITIVE-GOING OUTPUT VOLTAGE

.047 DIA LOCKWIRE HOLES,
 TYP 2 HOLES

MODEL NUMBER	SENSITIVITY
33306A1	5 mV/G

**MOUNTING SURFACE
 PREPARATION:**

PREPARE FLAT CIRCULAR AREA
 APPROX. Ø.750, FLAT TO WITHIN
 .0005 T.I.R. AT CENTER, DRILL
 Ø.213 X .320 DEEP MIN
 BOTTOM TAP 1/4-28 UNF-2B X
 .270 DEEP MIN



7. MINOR VOIDS, SCARS, SCRATCHES AND MOUNTING BLEMISH/
 WITNESS MARKS ON EXTERNAL SURFACES ARE ALLOWED DUE TO
 RESTRAINING AND HANDLING DURING TESTING, TRANSPORT OR
 PROCESSING. THESE APPEAR AS INDICATORS THAT DO NOT AFFECT
 FORM, FIT OR FUNCTION AS INTENDED BY DESIGN OR APPLICATION

6. TYPICAL MATING CONNECTORS ARE: MS3476W898SN (STANDARD
 PLUG, CADMIUM FINISH). FOR PLUG W/RFI FINGERS:
 MS3475 W898SN. OTHER VARIATIONS ARE AVAILABLE.

- MATERIAL, BODY & CONNECTOR: 300 SERIES STAINLESS STEEL.
- SENSING ELEMENT: QUARTZ SHEAR.
- POWER/SIGNAL GROUND INSULATED FROM OUTER CASE. INSUL
 RES: > 10 MEGOHMS.
- SEALING: HERMETIC.
- WEIGHT: 37 GRAMS.

		MASTER ONLY IF IN RED		CHATSWORTH, CA	
SCALE	2X	REV	-	DATE	-
DATE	04/26/10	PART NO.	MODELS 3062A & 3062A1		
DRAWN	RA	CHECKED	EP	MAT'L	
APPROVED	DV	NEXT ASSEMBLY	USED ON		
TITLE				DWG NO.	
OUTLINE/INSTALLATION DRAWING, MODELS 3306A1				127-3306A1	
SHEET 1 OF 1					

Model Number 3306A1	PERFORMANCE SPECIFICATION	DOC NO PS3306A1
	HIGH FREQUENCY IEPE QUARTZ SHEAR ACCELEROMETERS	REV D, ECN 10246, 08/16/13



- LOW TEMPERATURE APPLICATION
- EXCELLENT LINEARITY
- ELECTRICALLY ISOLATED
- HERMETICALLY SEALED

PHYSICAL
 Weight
 Size Hex X Height
 Connector [4] Type
 Mounting Provision : Integral Stud
 Material : Housing, Base and Connector
 Element Material, Style

ENGLISH		SI	
1.30	oz	37	grams
.750 X 1.4	Inches	19.05 X 35.56	mm
3 Pin, MS3443H898PN		3 Pin, MS3443H898PN	
1/4 - 28 UNF-2A		1/4 - 28 UNF-2A	
300 Series S.S.		300 Series S.S.	
Quartz, Shear		Quartz, Shear	

PERFORMANCE
 Sensitivity, ±5% [1]
 Range F.S for ± 5 Volts Output
 Frequency Range ±3db
 Filter Rolloff Rate
 Filter Corner Frequency
 Resonant Frequency
 Noise floor
 Spectral Noise 1Hz
 10Hz
 100Hz
 1000Hz

5	mV/g	0.51	mV/m/s ²
±1000	g	± 9810	m/s ²
1.6 to 2500	Hz	1.6 to 2500	Hz
12	db/octave	12	db/octave
2,500	Hz	2,500	Hz
>35	kHz	>35	kHz
0.007	Grms	0.069	m/s ² rms
0.002	Grms/sqr(Hz)	0.02	m/s ² rms/sqr(Hz)
0.0007	Grms/sqr(Hz)	0.007	m/s ² rms/sqr(Hz)
0.0003	Grms/sqr(Hz)	0.003	m/s ² rms/sqr(Hz)
0.0001	Grms/sqr(Hz)	0.001	m/s ² rms/sqr(Hz)
± 1%	% F.S.	± 1%	% F.S.
5	%	5	%
0.002	g/μσ	0.02	m/s ² /μσ

ENVIRONMENTAL
 Maximum Vibration
 Maximum Shock
 Temperature Range
 Seal

±1000	G's,peak	±9810	m/s ² peak
±2000	G's,peak	±19620	m/s ² peak
-320 to +300	°F	-195 to +149	°C
Hermetic		Hermetic	

ELECTRICAL
 Supply Current Range [3]
 Compliance Voltage Range
 Output Impedance, Typ
 Bias Voltage
 Discharge Time Constant
 Output Signal Polarity for Acceleration Towards Top
 Electrical Isolation, Ground (Pin B) to case(pin A)

2 to 20	mA	2 to 20	mA
+ 18 to +30	Volts	+ 18 to +30	Volts
100	Ω	100	Ω
+7.5 to +9.5	VDC	+7.5 to +9.5	VDC
0.1 to 1.0	Sec	0.1 to 1.0	Sec
Positive		Positive	
10	GΩ,min	10	GΩ,min

This family also includes:

Model	Sensitivity	Range F.S ± 5 Volts	Max Vibration/Shock	Resonant Frequency

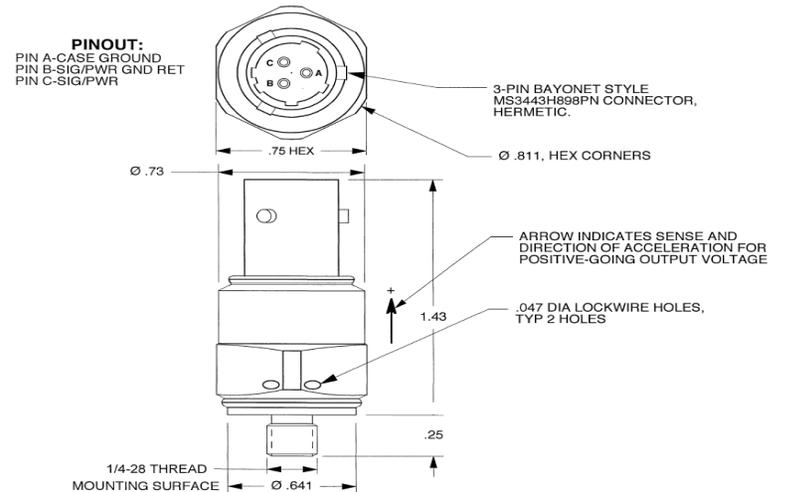
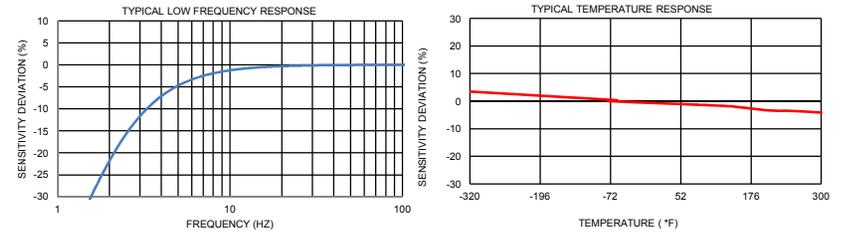
Refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)

Notes:

- [1] Measure 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.
- [4] Typical mating connectors are: MS3476W898SN (Standard plug, Cadmium finish). For plug W/RFI fingers: MS3475W898SN. Other variations are available.
- [5] Lock wire holes are included in the base
- [6] 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. Refer to 127-3306A1 for more information.



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