

Model Number 3306A1		RMANCE SPECIFICA				
	•	This family a	This family also includes:			
	 LOW TEMPERATURE APPLICATION 	Model	Sensitivity	Range F.S ± 5 Volts	Max	
	• EXCELLENT LINEARITY					
	• ELECTRICALLY ISOLATED					
DYTRAN 3306A ¹ SIN XXX	HERMETICALLY SEALED					
		Refer to the performance specifications of the products in this family for detail				
		Supplied Acc	essories:			

Positive

		ENGLISH		SI	
PHYSICAL					
Weight	•	1.30	oz	37	grams
Size	Hex X Height	.750 X 1.4	Inches	19.05 X 35.56	mm
Connector [4]	Type	3 Pin, MS3443H898PN		3 Pin, MS3443H898PN	
Mounting Provision : Integral St		1/4 - 28 UNF-2A		1/4 - 28 UNF-2A	
Material : Housing, Base and Connector		300 Series S.S.		300 Series S.S.	
Element Material, Style		Quartz, Shear]	Quartz, Shear	
PERFORMANCE					
Sensitivity, ±5% [1]		5	mV/g	0.51	mV/m/s ²
Range F.S for ± 5 Volts Output		±1000	g	± 9810	m/s ²
Frequency Range	±3db	1.6 to 2500	Hz	1.6 to 2500	Hz
Filter Rolloff Rate		12	db/octave	12	db/octave
Filter Corner Frequency		2,500	Hz	2,500	Hz
Resonant Frequency		>35	kHz	>35	kHz
Noise floor		0.007	Grms	0.069	m/s ² rms
Spectral Noise	1Hz	0.002	Grms/sqr(Hz)	0.02	m/s ² rms/sqr(Hz)
	10Hz	0.0007	Grms/sqr(Hz)	0.007	m/s ² rms/sqr(Hz)
	100Hz	0.0003	Grms/sqr(Hz)	0.003	m/s2 rms/sqr(Hz)
	1000Hz	0.0001	Grms/sqr(Hz)	0.001	m/s ² rms/sqr(Hz)
Linearity [2]		± 1%	% F.S.	± 1%	% F.S.
Maximum Transverse sensitivit	:y	5	%	5	%
Strain Sensitivity		0.002	g/μσ	0.02	m/s²/μσ
ENVIRONMENTAL					
Maximum Vibration		±1000	G's,peak	±9810	m/s² peak
Maximum Shock		±2000	G's,peak	±19620	m/s² peak
Temperature Range		-320 to+300	°F	-195 to +149	°C
Seal		Hermetic]	Hermetic	
ELECTRICAL					
Supply Current Range [3]		2 to 20	mA	2 to 20	mA
Compliance Voltage Range		+ 18 to +30	Volts	+ 18 to +30	Volts
Output Impedence, Typ		100	Ω	100	Ω
Bias Voltage		+7.5 to +9.5	VDC	+7.5 to +9.5	VDC
Discharge Time Constant		0.1 to 1.0	Sec	0.1 to 1.0	Sec

Positive

 $G\Omega$,min

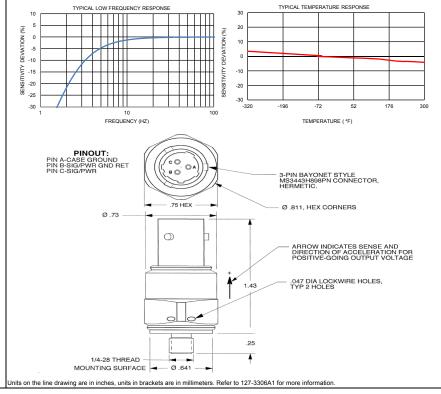
This family	This family also includes:								
Model	Sensitivity	Range F.S ± 5 Volts	Max Vibration/Shock	Resonant Frequency					

DOC NO PS3306A1 REV E, ECN 13374, 03/23/17

ailed description

1) Accredited calibration certificate (ISO 17025)

- [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.





Output Signal Polarity for Acceleration Towards Top

Electrical Isolation, Ground (Pin B) to case(pin A)

 $G\Omega$,min