

MODEL NUMBER DOC NO. PERFORMANCE SPECIFICATION 3023A2H PS3023A2H REV C,ECN7023, 08/21/10 ACCELEROMETER, TRIAXIAL, IEPE



- HIGH TEMPERATURE
- HERMETICALLY SEALED
- MINIATURE SIZE

		ENGLISH		SI	
PHYSICAL					
Weight		0.14	oz	4.0	grams
Mounting		10-32 Tapped Hole		10-32 Tapped Hole	
Connector [1]		4-pin		4-pin	
Material, Housing / Connector		Titanium		Titanium	
PERFORMANCE					
Sensitivity, -10 + 15% [2]		10	mV/g	1.02	mV/m/s^2
Range F.S. (each axis)		±500	g	4900.00	m/s^2
Frequency Response, +/-10%	1-Axis	2 to 5000	Hz	2 to 5000	Hz
	2-Axis	2 to 5000	Hz	2 to 5000	Hz
	3-Axis	2 to 10000	Hz	2 to 10000	Hz
Element Natural Frequency	1-Axis	20	kHz	20	kHz
	2-Axis	25	kHz	25	kHz
	3-Axis	30	kHz	30	kHz
Equivalent Electrical Noise		0.007	grms	0.0686	m/s^2 rms
Linearity [3]		1	%F.S.	1	%F.S.
Transverse Sensitivity Max		6	%	6	%
Signal Polarity		[5]	, -	[5]	,,,
ELECTRICAL					
Supply Current Range [4]		2 to 20	mA	2 to 20	mA
Compliance Voltage Range		+18 to +30	VDC	+18 to +30	VDC
Output Impedance, Typ.		100	Ω	100	Ω
Output Bias Voltage Discharge Time Constant, Nom.		7 to 9	VDC	7 to 9 0.2 - 0.4	VDC
Ground Isolation		0.2 - 0.4 Case Ground	sec	0.2 - 0.4 Case Ground	sec
Ground Isolation		Oase Oloulu		Case Ground	
ENVIRONMENTAL					
Maximum Shock		5000	g pk	49050	m/s^2
Maximum Vibration		±600	g pk	±5880	m/s^2
Temperature Range		-60 to +320	°F	-51 to +160	°C
Environmental Seal		Hermetic	_	Hermetic	
Coefficient of Thermal Sensitivity		0.015	% / °F	0.015	% / °C
1					

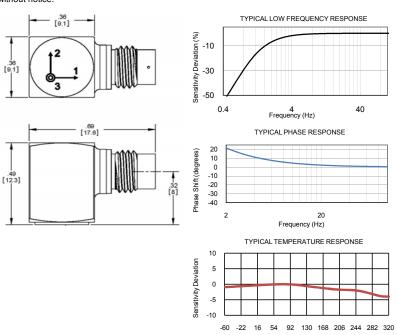
This family also includes:									
Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC				

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

- Supplied Accessories:
 1) Accredited Calibration Certificate (ISO 17025)
- 2) Model 6200 Mounting Stud, Qty 1.

- [1] Connector mates with Dytran's cable assy. Model 6811AXX. (xx = length in feet)
- [2] Measured At 100 Hz, 1 Grms per ISA RP 37.2
- [3] Measured using zero-based best straight-line method, % of F.S. or any lesser range.

 2 [4] Power only with Dytran IEPE power unit or other Dytran-compatible constant current type power unit unit. If power is applied without current limiting protection, the internal amplifier will be destroyed.
 - [5] Positive for motion in direction of arrows on housing.
 - [4] In the interest of constant product improvement, we reserve the right to change the specification without notice.





Temperature (F)

