

## MODEL NUMBER 3184F PERFORMANCE SPECIFICATION PS3184F SINGLE AXIS ACCELEROMETER, IEPE DOC NO. PS3184F REV A, ECN 14399, 08/06/18



- INTERNALLY CASE ISOLATED
- EMI/RFI PROTECTION

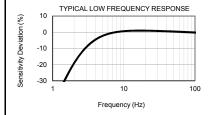
		ENGLISH		SI	
PHYSICAL					_
Weight, Max	Γ	4.73	oz	135	grams
Mounting Provision		1/4-28		1/4-28	
Connector (Mighty Mouse), side exit	Туре	2 PIN		2 PIN	
Material Body	Material	300 SERIES S.S.	]	300 SERIES S.S.	
PERFORMANCE					
Sensitivity +/- 10% [1]		100	mV/g	10	mV/ m/s <sup>2</sup>
Range F.S. For ± 5 Volts Output		± 50	g pk	± 490.5	m/s² pk
Frequency Range, ± 5%		5 to 2000	Hz	5 to 2000	Hz
Frequency Range, ± 10%		3.3 to 2500	Hz	3.3 to 2500	Hz
Element Resonant Frequency		>15	kHz	>15	kHz
Equivalent Electrical Noise Floor		0.0005	g rms	0.005	m/s² rms
Linearity [2]		± 1	%F.S	± 1	%F.S
Transverse Sensitivity, Max.		5%		5%	
Strain Sensitivity @250με		0.001	g/με	0.01	m/s²/με
ENVIROMENTAL					_
Maximum Vibration		500	±gpk	4900	± m/s² pk
Maximum Shock		5000	±gpk	49000	± m/s² pk
Temperature Range		-40 to +160	°F	-40 to 71	°C
Seal		Hermetic		Hermetic	
Coefficient Of Thermal Sensitivity	L	0.002	%/°F	0.004	%/°C
ELECTRICAL	_				_
Supply Current [3]		2 to 20	mA	2 to 20	mA
Compliance Voltage Range		+18 to +30	V	+18 to +30	V
Output Impedance TYP	_	100 10 to 11.5	Ω VDC	100 10 to 11.5	Ω VDC
Bias Voltage Discharge Time Constant	-	0.1 to 0.4	sec	0.1 to 0.4	sec
Electrical Isolation [4]	<u> </u>	10	GΩ	10	GΩ

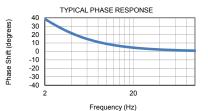
This family a	This family also includes:								
Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC				

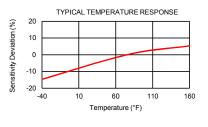
Refer to the performance specifications of the products in this family for detailed description.

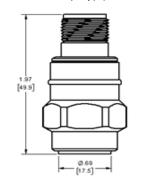
## <u>Notes</u>

- [1] Measured at 100Hz +/-1Hz, 1 grms per ISA RP 37.2.
- [2] Measured using zero-based best straight-line method, % of F.S. or any lesser range.
- [3] Do not apply power to this device without current limiting, 20 mA MAX. To do so will destroy the integral IC amplifier
- [4] Electrical ground isolated from sensor case.
- [5] 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 127-3184F for more information.



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