

 Model Number
 DOC NO

 3055D2
 PERFORMANCE SPECIFICATIONS
 PS3055D2

 IEPE ACCELEROMETER
 REV F, ECN 16259, 07/20/21



- HERMETICALLY SEALED
- BASE ISOLATED
- IDEAL LOW FREQUENCY RESPONSE

		ENGL	ENGLISH		SI	
PHYSICAL						
Weight		0.35	oz	10	grams	
Connector	Туре	10-32		10-32		
Mounting Provision	Tapped Hole	10-32 X .150 ↓		10-32 X .150 ↓		
Material, Housing/Connector		Titanium		Titanium		
Sensing Element		Ceramic		Ceramic		
Element Style		Planar Shear]	Planar Shear]	
PERFORMANCE						
Sensitivity, ± 5% [1] [5]		100	mV/g	10	mV/m/s ²	
Range for ± 5 Volts Output		50	g pk	491	m/s² pk	
Frequency Response, ± 10%		.54 to 10000	Hz	.54 to 10000	Hz	
Resonant Frequency		> 36	kHz	> 36	kHz	
Broad Band Resolution		0.0004	g RMS	0.004	m/s ² RMS	
Sprectral Noise	.1Hz	24.38	μg RMS/√(Hz)	239	μm/s² RMS/√(Hz)	
	1Hz	35.75	μg RMS/√(Hz)	351	μm/s² RMS/√(Hz)	
	10Hz	13.89	μg RMS/√(Hz)	136	µm/s² RMS/√(Hz)	
	100Hz	3.54	μg RMS/√(Hz)	35	μm/s² RMS/√(Hz)	
	1000Hz	1.24	μg RMS/√(Hz)	12	μm/s² RMS/√(Hz)	
	10000Hz	0.817	μg RMS/√(Hz)	8	μm/s² RMS/√(Hz)	
Linearity [2]		± 1	% F.S.	± 1	% F.S.	
Maximum Transverse sensitivity	y	5	%	5	%	
Strain Sensitivity @ 250με		0.002	g/με	0.02	m/s²/με	
ENVIRONMENTAL						
Maximum Shock		2000	g pk	19620	m/s ² pk	
Temperature Range		-67 to +225	°F	-55 to +107	°C	
Seal		Hermetic		Hermetic		
ELECTRICAL						
Supply Current Range [3]		2 to 20	mA 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		11 to 13	VDC	11 to 13	VDC	
Discharge Time Constant		0.5 to 1.5	Sec	0.5 to 1.5	Sec	
Electrical Isolation		10	GΩ,min	10	GΩ,min	
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This family also includes:							
Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)			
3055D1	10	1 to 10000	0.5 to 1.5	-67 to +250			
3055D3	500	1 to 10000	0.5 to 1.5	-67 to +225			
3055D4	50	1 to 10000	0.5 to 1.5	-67 to +250			
3055D5	20	1 to 10000	0.5 to 1.5	-67 to +250			
3055D6	200	1 to 10000	0.5 to 1.5	-67 to +225			
3055D11	1	1 to 10000	0.5 to 1.5	-67 to +250			
3055D12	5	1 to 10000	0.5 to 1.5	-67 to +250			

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

Notes:

[1] Measured at 100Hz, 1 g RMS per ISA RP 37.2.

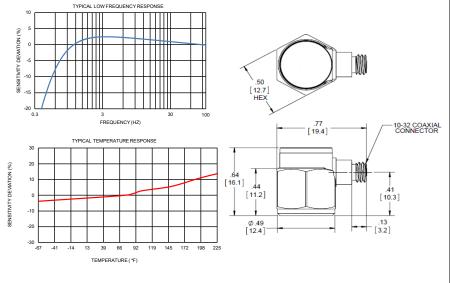
[2] Measure using zero-based straight line method, % of F.S. or any lesser range.

[3] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.

[4] In the interest of constant product improvement, we reserve the right to change specifications without notice.

It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

[5] All specifications are at room temperature unless otherwise specified.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3055D for more information.

