

 Model Number
 DOC NO

 3055D2T
 PERFORMANCE SPECIFICATIONS
 PS3055D2T

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



- HERMETICALLY SEALED
- BASE ISOLATED
- IDEAL LOW FREQUENCY RESPONSE
- TEDS

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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/q	10	mV/m/s²
Range for ± 5 Volts Output		50	g pk	491	m/s ² 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		5	%	5	%
Strain Sensitivity @ 250με		0.002	g/με	0.02	m/s²/με
ENVIRONMENTAL					
Maximum Shock		2000	l ank	19620	m/s² pk
Operating Temperature Range		-67 to +225	g pk °F	-51 to +107	°C
TEDS Operating Temperature		-40 to +185	°F	-40 to +85	°C
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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		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
TEDS		IEEE 1451.4		IEEE 1451.4	
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This family also includes:							
Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)			
3055D1T	10	1 to 10000	0.5 to 1.5	-60 to +250			
3055D3T	500	1 to 10000	0.5 to 1.5	-60 to +225			
3055D4T	50	1 to 10000	0.5 to 1.5	-60 to +250			
3055D5T	20	1 to 10000	0.5 to 1.5	-60 to +250			
3055D6T	200	1 to 10000	0.5 to 1.5	-60 to +225			
3055D11T	1	1 to 10000	0.5 to 1.5	-60 to +250			
3055D12T	5	1 to 10000	0.5 to 1.5	-60 to +250			

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

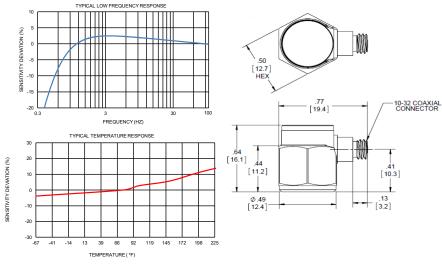
Supplied Accessories:

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 127-3055DT for more information.

