

 Model Number
 DOC NO

 3055D10T
 PERFORMANCE SPECIFICATIONS
 PS3055D10T

 IEPE ACCELEROMETER
 REV A, ECN 14614, 12/01/20



- -67 °F TO +320°F OPERATION
- BASE ISOLATED
- IDEAL LOW FREQUENCY RESPONSE
- TEDS FEATURE

		ENGLIS	SH	SI		
PHYSICAL						
Weight		0.35	oz	10	grams	
Connector	Type	10-32		10-32		
Mounting Provision	Tapped Hole	10-32 Tapped hole		10-32 Tapped hole		
Material, Housing/Connecto	or	Titanium		Titanium	Titanium	
Sensing Element		Ceramic		Ceramic		
Element Style		Planar Shear		Planar Shear		
PERFORMANCE						
Sensitivity, ± 5% [2]		10	mV/g	1	mV/m/s ²	
Range for ± 5 Volts Output		±500	g pk	±4,905	m/s ² pk	
Frequency Response, ± 5%		1 to 5000	Hz	1 to 5000	Hz	
Frequency Response, ± 10%		1 to 10000	Hz	1 to 10000	Hz	
Resonant Frequency		> 36	kHz	> 36	kHz	
Broad Band Resolution		0.004	g RMS	0.039	m/s2 RMS	
inearity [3]		±1	% F.S.	±1	% F.S.	
Maximum Transverse sensitivity		5	%	5	%	
Strain Sensitivity @ 250με		0.002	g/με	0.02	$m/s^2/\mu\epsilon$	
ENVIRONMENTAL						
Maximum Shock		±5,000	g pk	49050	m/s ² pk	
Temperature Range		-67 to +320	°F	-55 to +160	°C	
TEDS Operating Temperature Range		-40 to +185	°F	-40 to +85	°C	
Seal		Hermetic		Hermetic		
ELECTRICAL						
Supply Current Range [4]		2 to 5	mA	2 to 5	mA	
Compliance Voltage Range		+18 to +30	Volts	+18 to +30	Volts	
Output Impedance,Typ		100	Ω	100	Ω	
Bias Voltage		+10 to +13	VDC	+10 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 Feature		IEEE 1451.4		IEEE 1451.4		

This family also includes:								
Model	Sensitivity (mV/g)	Frequency Response, ±10% (Hz)	Time Constant (Sec)	Operating Temp (°F)				
3055D7T	100	1 to 10000	0.5 to 1.5	-67 to +320				
3055D8T	50	1 to 10000	0.5 to 1.5	-67 to +320				
3055D9T	20	1 to 10000		-67 to +320				
3055D13T	200	1 to 10000	0.5 to 1.5	-67 to +320				
3055D14T	500	1 to 10000	0.5 to 1.5	-67 to +320				
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Refer to the performance specifications of the products in this family for detailed description

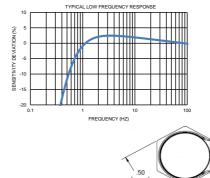
Supplied Accessories:

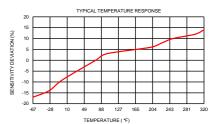
- 1) Accredited calibration certificate (ISO 17025)
- 2) Model 6200 mounting stud, Qty. 1

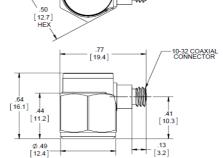
Notes:

- [1] All specifications are at room temperature unless otherwise specified.
- [2] Measured at 100Hz, 1 g RMS per ISA RP 37.2.
- [3] Measure using zero-based straight line method, % of F.S. or any lesser range.
- [4] Do not apply power to this system without current limiting, 5 mA MAX. To do so will destroy the IC charge amplifier.
- [5] 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.







Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3055D7T for more information

