

Model Number DOC NO PERFORMANCE SPECIFICATIONS 3055D7 PS3055D7 IEPE ACCELEROMETER REV B, ECN 16090, 03/02/21



- -67 °F TO +325°F OPERATION
- BASE ISOLATED
- IDEAL LOW FREQUENCY RESPONSE
- HERMETICALLY SEALED

		ENGLIS	H	SI	
PHYSICAL		•			
Weight		0.35	oz	10	grams
Connector	Туре	10-32		10-32	
Mounting Provision	Tapped Hole	10-32 Tapped hole		10-32 Tapped hole	
Material, Housing/Connector		Titanium		Titanium	
Sensing Element		Ceramic		Ceramic	
Element Style		Planar Shear		Planar Shear	
PERFORMANCE					
Sensitivity, ± 5% [2]		100	mV/g	10.2	mV/m/s ²
Range for ± 5 Volts Output		±50	g pk	±491	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		0.0004	g RMS	0.004	m/s ² RMS
Linearity [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 +325	°F	-55 to +163	°C
Seal		Hermetic		Hermetic	
ELECTRICAL					
Supply Current Range [4]		2 to 20	mA	2 to 20	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	$G\Omega$, min	10	$G\Omega$, min

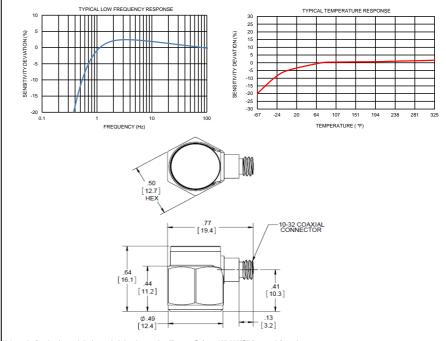
This family also inc	ludes:	•		
Model	Sensitivity (mV/g)	Frequency Response, ±10% (Hz)	Time Constant (Sec)	Operating Temp (°F)
3055D8	50	1 to 10000	0.5 to 1.5	-67 to +325
3055D9	20	1 to 10000	0.5 to 1.5	-67 to +325
3055D10	10	1 to 10000	0.5 to 1.5	-67 to +325
3055D13	200	1 to 10000	0.5 to 1.5	-67 to +325
3055D14	500	1 to 10000	0.5 to 1.5	-67 to +325

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

Supplied Accessories:

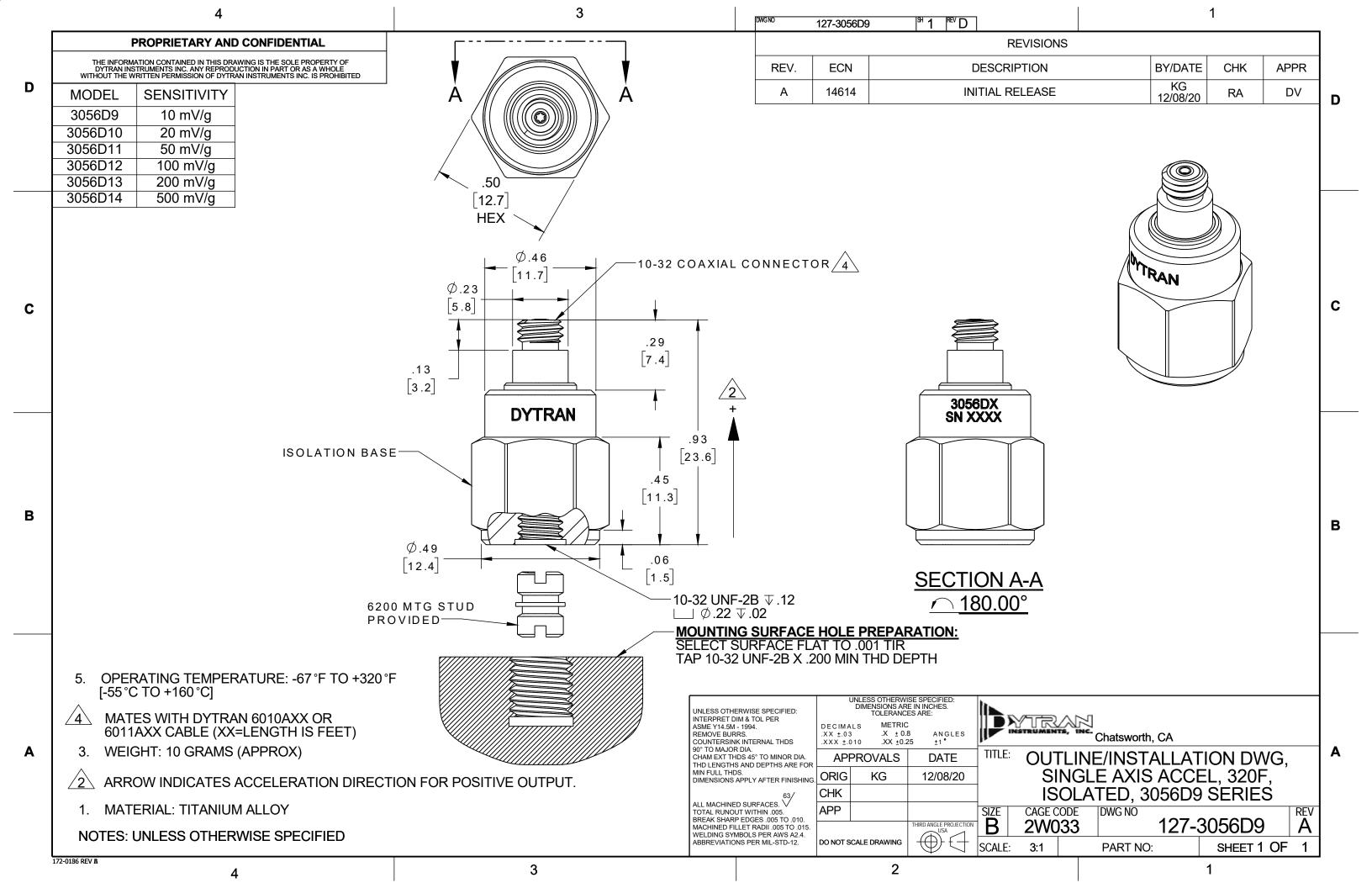
- 1) Accredited calibration certificate (ISO 17025)
- 2) Model 6200 mounting stud, Qty. 1

- [1] 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, 20 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.









 Model Number
 DOC NO

 3056D9
 PERFORMANCE SPECIFICATIONS
 PS3056D9

 IEPE ACCELEROMETER
 REV B. ECN 16090, 03/02/21



- -67 °F TO +325°F OPERATION
- BASE ISOLATED
- IDEAL LOW FREQUENCY RESPONSE
- HERMETICALLY SEALED

		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/Connector		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/s ² RMS
Linearity [3]		±1	% F.S.	±1	% F.S.
Maximum Transverse sensitivity		5	%	5	%
Strain Sensitivity @ 250με		0.001	g/με	0.01	$m/s^2/\mu\epsilon$
ENVIRONMENTAL					
Maximum Shock		±3,000	g pk	29430	m/s ² pk
Temperature Range		-67 to +325	°F	-55 to +163	°C
Seal		Hermetic		Hermetic	
ELECTRICAL					
Supply Current Range [4]		2 to 20	mA	2 to 20	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

This family also in	cludes:			
Model	Sensitivity (mV/g)	Frequency Response, ±10% (Hz)	Time Constant (Sec)	Operating Temp (°F)
3056D10	20	1 to 10000	0.5 to 1.5	-67 to +325
3056D11	50	1 to 10000	0.5 to 1.5	-67 to +325
3056D12	100	1 to 10000	0.5 to 1.5	-67 to +325
3056D13	200	1 to 10000	0.5 to 1.5	-67 to +325
3056D14	500	1 to 10000	0.5 to 1.5	-67 to +325

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

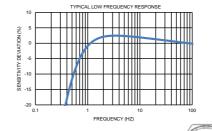
Supplied Accessories:

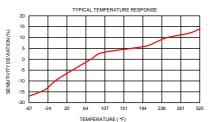
- 1) Accredited calibration certificate (ISO 17025)
- 2) Model 6200 mounting stud, Qty. 1

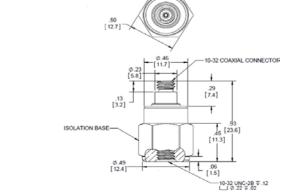
Notes:

- [1] All specifications are at room temperature unless otherwise specified.
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- [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, 20 mA MAX. To do so will destroy the IC charge amplifier.
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Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3056D9 for more information

