

Model Number
3055D7T PERFORMANCE SPECIFICATIONS PS3055D7T

IEPE ACCELEROMETER REVA, ECN 14614, 12/01/20



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

		ENGLIS	SH.	SI	
PHYSICAL		LIVOLIC	211	- 01	
Weight		0.35	0Z	10	grams
Connector	Type	10-32	02	10-32	gramo
Mounting Provision	Tapped Hole	10-32 Tapped hole		10-32 Tapped hole	
Material, Housing/Connector	rapped riolo	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/s² 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	$G\Omega$, min	10	$G\Omega$, 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)			
3055D8T	50	1 to 10000	0.5 to 1.5	-67 to +320			
3055D9T	20	1 to 10000	0.5 to 1.5	-67 to +320			
3055D10T	10	1 to 10000	0.5 to 1.5	-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			

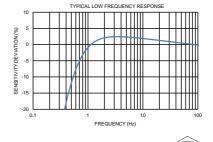
Refer to the performance specifications of the products in this family for detailed description

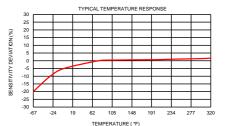
Supplied Accessories:

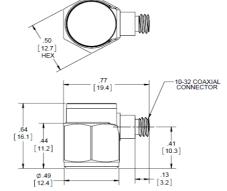
- 1) Accredited calibration certificate (ISO 17025)
- 2) Model 6200 mounting stud, Qty. 1

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

