

Model Number
9155D-771

BACK-TO-BACK LOW-FREQUENCY ACCELEROMETER CALIBRATION OPTION

Revision: C
ECN #:

PERFORMANCE – SYSTEM

Expanded Measurement Uncertainty			[0]
0.5 to 1.0 Hz	%	1.5	[1]
1.0 to 10 Hz	%	1.25	[1]
10 to 100 Hz	%	1.0	[1]

LONG-STROKE AIR BEARING SHAKER

Manufacturer/Model	TMS	2129F025	[2]
Frequency Range	Hz	0.1 to 200	
Maximum Acceleration			
0.5 to 1.0 Hz	g _{pk}	0.128 to 0.51	[3]
1.0 to 10 Hz	g _{pk}	0.51 to 2	[3]
Maximum Displacement	in _{pk-pk} (mm _{pk-pk})	10 (255)	
Maximum Payload	kg	2	

ICP® REFERENCE ACCELEROMETER

Manufacturer/Model	PCB Piezotronics	301M26	[2]
Sensitivity (+/- 10%)	mV/g	500	
Transverse Sensitivity	%	≤3	
Low Frequency Range (-5%)	Hz	0.035	
Sensing Element Material		Quartz	
Discharge Time Constant	sec	>15	
Broadband Resolution	mg rms	0.15	

ICP® VERIFICATION ACCELEROMETER

Manufacturer/Model	PCB Piezotronics	Q353B51	[2][4]
Sensitivity (+/- 10%)	mV/g	500	
Transverse Sensitivity	%	≤5	[5]
Low Frequency Range (-5%)	Hz	0.1	
Sensing Element Material		Quartz	
Discharge Time Constant	sec	≥ 10	
Settling Time	sec	< 300	
Broadband Resolution	mg RMS	0.4	

MISCELLANEOUS

9155D-771 available as option to 9155D system, includes 2129F025 long-stroke shaker with 301M26 back-to-back reference sensor for calibrations from 0.5 to 200 Hz.
9155 software provides seamless integration of data acquired by the 2129F025 long-stroke shaker with high-frequency data acquired using alternative shaker hardware such as supplied with the 9155D-830C/831 air bearing shaker option.

NOTES:

- [0] Uncertainty below 0.5 Hz, above 100 Hz, is undefined.
[1] Per ISO with k=2 coverage factor using Q353B51.
[2] See manufacturer data for full specifications.
[3] At max displacement 10 in_{pk-pk}. Max acceleration dependent on payload.
[4] Q prefix for extended discharge time constant.
[5] Transverse sensitivity is typically ≤ 3%.

SUPPLIED ACCESSORIES:

PCIe Ethernet Card
Crossover Ethernet Cable
Verification Accelerometer

All specifications are at room temperature unless otherwise specified.

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In the interest of constant product improvement, specifications may change without notice.

Project Engineer:

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Product Manager:

MTD

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Spec Number:

PS-0081

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Date: 7/14/26

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