

Model Number <b>699B02</b>	<b>HAND HELD SHAKER</b>	Revision: A ECN #: 48673
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<b>Performance</b>	<u>ENGLISH</u>	<u>SI</u>	
Operating Frequency(± 1 %)	159.2 Hz	159.2 Hz	
Acceleration Output(± 3 %)	1 g rms	9.81 m/s <sup>2</sup> rms	[4]
Velocity Output	0.39 in/sec rms	9.81 mm/s rms	[5]
Displacement Output	0.39 mil rms	9.81 mil rms	[5]
Transverse Output	≤ 3 %	≤ 3 %	
Distortion(0 to 250 grams load)	≤ 7 %	≤ 7 %	[6]
Maximum Load	8.8 oz	250 gm	[7]
Automatic Switch Off Time	1.0 to 2.5 minutes	1.0 to 2.5 minutes	[8]
Calibration Cycles(250 gram load)	90 cycles	90 cycles	[3]
<b>Environmental</b>			
Temperature Range(Operating)	15 to 130 °F	-10 to 55 °C	
<b>Electrical</b>			
Ramp-Up time	≤ 3 sec	≤ 3 sec	[1]
Power Required(Standard)	Internal Battery	Internal Battery	
Power Required(Alternate)	DC Power	DC Power	
Internal Battery(Quantity)	4	4	
Internal Battery(Type)	AA	AA	[2]
DC Power(± 5 %)	12 VDC	12 VDC	
DC Power	1.67 Amps	1.67 Amps	
Battery Life(250 gram load)	2.3 hours	2.3 hours	[3]
<b>Physical</b>			
Size (Height x Diameter)	7.8 in x 2.2 in	200 mm x 56 mm	
Weight(with batteries)	31 oz	900 gm	[1]
Mounting Thread	1/4-28 Female	No Metric Equivalent	[9][10]
Mounting Torque(Maximum)	to 10 in-lb	to 10 in-lb	[9]

**OPTIONAL VERSIONS**

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

**NOTES:**

[1] Typical.  
 [2] Alkaline type recommended for longest service life.  
 [3] Approximate values, based on automatic switch off time and dependent on type of batteries.  
 [4] Unit supplied set to rms; see manual for peak selection.  
 [5] Calculated values for reference only.  
 [6] Typical max for range  
 [7] For sensors weighing <75 grams add model 080A136 mass  
 [8] Unit supplied set to auto shut off; see manual for continuous use selection.  
 [9] Transducer to shaker table.  
 [10] Test sensor should be hand tightened (without tools).  
 [11] See PCB Declaration of Conformance PS022 for details.

**SUPPLIED ACCESSORIES:**

Model 073A15 Battery Pack (1)  
 Model 080A136 Calibration Mass (1)  
 Model 081A08 Mounting Stud (10-32 to 1/4-28) (1)  
 Model 081A40 Mounting Stud (1)  
 Model M081A19 Mounting stud, 1/4-28 to M6 x 1, SS with shoulder (1)

Entered: LK	Engineer: CPH	Sales: KK	Approved: DY	Spec Number:
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All specifications are at room temperature unless otherwise specified.  
 In the interest of constant product improvement, we reserve the right to change specifications without notice.  
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