

Model Number
480B10

ICP ® POWER UNIT WITH DOUBLE INTEGRATION

Revision: D
ECN #: 23495

ELECTRICAL

Sensor Excitation:				
Voltage		VDC	18 +1, -2	
Constant Current		mA	2 ±0.6	
Output Signal - Full Scale		volts	±5 Minimum	
Outputs:				
Acceleration		mV/g	S ±2%	[1]
Integration Scale Factor:				
Velocity		mV/in/s pk	10x (S) ±5%	[1]
Displacement		mV/mil pk-pk	2x (S) ±5%	[1]
Low Frequency Corner (reference 100 Hz):				
Acceleration	-5%	Hz	≤0.07	[2]
	-3 dB	Hz	≤0.02	
Velocity	-5%	Hz	≤8	
	-3 dB	Hz	≤3	
Displacement	-5%	Hz	≤15	
	-3 dB	Hz	≤6	
High Frequency Response:				
Acceleration	-5%	Hz	≥100 kHz	
Velocity	-5%	Hz	≥10 kHz	
Displacement	-10%	Hz	≥1 kHz	
Noise (Broadband):				[6] [7]
Velocity		mil/sec pk	15 Maximum	
Displacement		mil pk to pk	1 Maximum	
DC Offset				[4]
Batteries (2 required)		mV	≤30	
Battery Life:		VDC	9	
Alkaline (supplied)		hours	>30	
Ni-cad (optional)		hours	>10	

ENVIRONMENTAL

Temperature Range °F [°C] 32 to +122 [0 to +50]

PHYSICAL

Connectors:				
Input (transducer)		jack	BNC	
Output (scope)		jack	BNC	
Charging Connector		jack	#722 Switchcraft	[5]
Size: (H x W x D)				
		in	4.0 x 2.9 x 1.5	
		[mm]	[101.6 x 73.6 x 38.1]	
Weight (including batteries)				
		oz [gm]	9.75 [276.4]	

NOTES:

- [1] S denotes voltage sensitivity in mV/g of ICP accelerometer used.
- [2] Achieved with accelerometer having a discharge time constant of >1 second and 1M Ohm load impedance.
- [3] May be limited by particular accelerometer used.
- [4] With 1M Ohm load impedance.
- [5] Use only PCB approved battery recharger. Use only Ni-cad batteries with recharger. Never attempt to recharge alkaline batteries.
- [6] For a 353B33 accelerometer (100 mV/g).
- [7] 0.02 Hz to 20 MHz bandwidth.
- [8] See PCB Declaration of Conformance PS024 for details.

SUPPLIED ACCESSORIES:

None



[8]

In the interest of constant product improvement, we reserve the right to change specifications without notice.

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Drawn	<i>JR</i>	1-27-06	Spec No. 2312
Engineer	<i>SB</i>	2-3-06	
Sales	<i>wj</i>	2/1/06	Sheet 1 of 1
Approved	<i>CPA</i>	2/1/06	