



a seacomp company

SPECIFICATION FOR APPROVAL

MODEL NUMBER	HDP05-MD05010U
PART NUMBER	HDP05-MD-BUSB-4
DESCRIPTION	I.T.E. & MEDICAL POWER SUPPLY BLACK
CUSTOMER / PROJECT CODE	MED-01
REVISION	A1 (Preliminary)
DATE	August 28, 2018

CUSTOMER APPROVAL	DATE
SEACOMP ENGINEERING APPROVAL	DATE

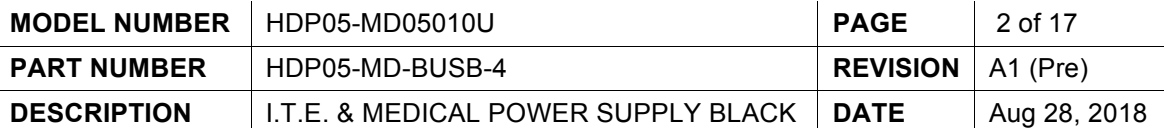
HDP Power – a SEACOMP company
2546 Gateway Road
Carlsbad, California 92009

Tel: 1.760.438.9600
Email: sales@seacomp.com
Website: www.hdp-power.com

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PART NUMBER	HDP05-MD-BUSB-4	REVISION	A1 (Pre)
DESCRIPTION	I.T.E. & MEDICAL POWER SUPPLY BLACK	DATE	Aug 28, 2018

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Revision History

[illegible]

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1 Scope

The device is a 5-watt AC to DC adapter designed to provide a constant power source for electrical products. This adapter is certified for both medical and informational technology equipment (ITE) applications.

2 Quality Requirements

2.1 Product Specific Quality Requirements

2.1.1 Mechanical / Electrical Requirements

2.1.1.1 Paint and Print Test

In accordance with EN 60068-2-70

The printings have to withstand the testing procedures without any restrictions.

Test liquid	Mineral oils (example: Baby oil)
Wiping cycles	1,000
Contact pressure	1N \pm 0.2N

2.1.1.2 Mechanical and Electrical Reliability

All electrical contacts and mechanically moving parts have to withstand a stress test of at least 3,000 simulated connecting cycles without any damage. After the test, the device must have 100% functionality. Connectors must comply with the manufacturer's requirements or relevant standards at minimum.

2.1.1.3 Cable Tension and Flex

All cable joints and strain relief points have to pass the following:

Static load:	5Kg / 1 min at 0 degree and at 90 degree angles
Flex test:	+/- 60 degree bending angle 250gm at 20cycle / minute with a minimum speed of 1000 cycles.

2.1.1.4 Drop Test

This test requires the device to be dropped from a height of 1 meter onto a concrete floor. The drop should cover all surfaces including the 2 edges and all 4 corners. After the test, the device should have 100% functionality. There should not be any cracks, breaks or damage to any surface or have any loose internal components. Additionally, the ultrasonic weld joint should still be intact with minimum 80% coverage.

2.1.1.5 Enclosure Crush Test

This test applies a uniformly distributed weight of 250 Newtons on all surfaces for 5 seconds per surface. There should be no physical damage or effect on the products performance (i.e. operating folding AC blade, easy insertion of international adapters, snug USB connector fit).

2.1.1.6 Cable Burn Test (to be tested by safety lab)

In accordance with DIN 75200

Burn down speed	max. 50 mm/min
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UL rated cable with UL file is an acceptable replacement for this test. Cable to be VW-1 rated.

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2.1.2 Climate Requirements

2.1.2.1 Temperature Range

Full Functionality	0°C up to +50°C
Storage Temperature	-20°C up to +85°C

2.1.2.2 Thermal Shock (operational)

Low Temperature	0°C (AC/DC)
High Temperature	50°C (AC/DC)
T / t	15°C/min
Cycle Duration	1 hour
Number of Cycles	10
Mode of Operation	Minimum 75% full load
Requirement	100% functionality after test, without any damages or physical change

2.1.2.3 Thermal Shock (non-operating)

Low Temperature	-20°C
High Temperature	+85°C
T / t	15°C/min
Cycle Duration	1 hour
Number of Cycles	10
Mode of Operation	Switched off
Requirement	100% functionality after test, without any damages or physical change

2.1.2.4 Thermal Aging

Temperature	-20°C and +85°C
Duration	96 hours at each temperature
Mode of Operation	Power off
Requirement	100% functionality after test, without any damages or physical change

2.1.2.5 Humidity (non-condensing)

Temperature	+45°C
Humidity	95%
Duration	96 hours
Mode of Operation	Power up no load
Requirement	100% functionality after test, without any damages or physical change

2.1.2.6 Humidity (condensing)

Upper Temperature	+45°C
Lower Temperature	+25°C
Humidity	95%
Test Cycle	5°C / max ramp rate
Duration	96 hours
Number of cycles	6
Mode of Operation	Power up no load
Requirement	100% functionality after test, without any damages or physical change

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2.1.2.7 Salt Spray

Follow ASTM B117 standard with the possible exceptions listed below.

Temperature	35°C + 1.1 / - 1.7°C
Salt Solution	5%+/-1 Salt solution (NaCl) in Distilled or D1193 Type IV water
PH	6.5 - 7.2
Fog Rate	1m - 2 mL / hr / 80sq.cm
Duration	24 hours

2.2 General Quality Requirements

2.2.1 Product Related Requirements

2.2.1.1 General Appearance

Follows cosmetic requirements listed in Section 4 of this specification.

2.2.1.2 Emissions

The device must not produce any nuisance or unhealthy smell. A certificate must be made available proving the use of harmless materials.

2.2.1.3 Product Safety

The product has to comply with the relevant requirements listed in IEC 60950 (ITE) and IEC 60601 (medical).

Normal usage of the product must not result in any danger. In particular, any broken component parts, including electric components, may not result in any risk or danger of injury to the user. This is to be proven by a risk analysis during the product's development phase. Any potential hazard has to be indicated clearly in the user manual.

During normal use at an ambient temperature of 25°C, the housing (made of synthetic material) may warm up by 50K. Therefore, the maximum temperature of the parts could be as high as 75°C.

Individual "Hot Spots" (maximum size of 2 cm²) is acceptable if they are not located in the grip area. A warm up by 60K is acceptable in these "Hot Spots." Therefore, the maximum temperature of these parts could be 85°C.

For both normal use and "Hot Spot" instances, the housing must not exceed the maximum temperature of the applied synthetic.

When using tantalum capacitors, the effects of a potential explosion must be reduced to prevent any hazard to the user's health.

Protective actions against confusing the poles of the electric connectors have to be taken for any internal parts or connectors with specific polarity.

Transportation, storage, and operation of the adapter must not create any hazard, personal injury or any material damage. This is guaranteed through the controllable quality of workmanship and material used.

It must be guaranteed that after contact with natural oils, the housing material's performance does not result in any dangerous situations to the customer.

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2.2.1.4 Recycling and Environmental Compatibility

Must comply with RoHS and REACH.

Quality Level, (AQL)

In accordance with DIN ISO 2859 Part 1

General test-level	II
Critical defects	AQL 0
Major defects	AQL 0.4
Minor defects	AQL 0.65

2.2.2 Supplier Related Requirements

2.2.2.1 Demonstration of Quality

The supplier is obliged to maintain a quality assurance system which covers R&D and production specific items. This system must meet the requirements of ISO 9000-2008. A quality assurance plan (QA plan) is required for a project-specific proof of quality-assuring measures. The plan should be made available and presented upon request.

For the development phase, the QA plan needs to define milestones as proof of the reliability prognoses. The development results and the release by the customer need to also be included in this plan.

For the production phase, the QA plan has to focus on the detailed verification of all the planned QA steps from component procurement to delivery. Any acceptance or error criteria to be applied to the QA plan must meet the process capability index as defined in this specification.

2.2.2.2 Process Assurance

The quality capability has to be proven by a process capability of $C_{pk} > 1.33$ and must be documented by a continuous monitoring of the production process. Parameters relevant for this process capability will be marked separately in the product's construction documents.

2.2.2.3 Reliability

The probability of failure and the return of devices for repair must be less than 1% per year. The failure rates have to be predicted using MTBF calculations. The MTBF calculations have to be proven and available to the customer upon request.

A minimum of 100k MTBF must be achieved under nominal load and 25°C ambient temperature.

3 Electrical Characteristics

3.1 Input

- 3.1.1 Input Voltage Nominal: 120/220 VAC
- 3.1.2 Input Voltage Range: 90 ~ 264 VAC
- 3.1.3 Input Frequency Range: 50 / 60Hz (47 ~ 63 Hz)
- 3.1.4 Inrush Current: 30A peak at 240AC input < 200us
- 3.1.5 Maximum Input Current: 0.15A measured at 5 Watts
Vin = 100VAC & 1A load
- 3.1.6 Efficiency: CEC-VI
- 3.1.7 Turn-on Time: < 60ms
- 3.1.8 Input Fuse: 2A / 250VAC standard blow
- 3.1.9 AC Input Receptacle Type: Folding US AC blades
- 3.1.10 Isolation Voltage: Meet IEC 60950, IEC 60601
- 3.1.11 AC Leakage Current: .15mA measured 264V & 63Hz
- 3.1.12 Dielectric withstands Voltage: 3000VAC 60sec or 4242VDC 60 sec with no breakdown;
Earth leakage at 110% of rated voltage should be < 10mA
- 3.1.13 Input Power (No Load): < 0.1W

3.2 Output

- 3.2.1 DC Output: 5.00 VDC
- 3.2.2 Output Current: 1A
- 3.2.3 Load Regulation: 5% VDC
- 3.2.4 Ripple and Noise: 100mVp-p
- 3.2.5 Turn-on Overshoot: < 10%
- 3.2.6 Over-current Protection: < 20% of Imax
- 3.2.7 Short Circuit Protection: Protected for continuous short circuit
- 3.2.8 Reset After Shutdown: Yes
- 3.2.9 Thermal Stability Time: 30 min
- 3.2.10 Peak Load Duration: Indefinite (OCP will prevent overload)

3.3 Connector

Option A: USB-A connector with Bridged (D+ and D- shorted) or MFI configuration connection.



4 Pin Male "A" Connector on the cable



4 Pin Female "A" Connector on the computer



4 Pin "B" Male Connector on cable



4 Pin "B" Female Connector on computer

5V / 1A MFI configuration		
ID Pin	D-	D+
Spec (V)	2.68	2
Tolerance (V)	2.44-2.89	1.84-2.16
Non MFI Bridged version		
ID PIN	D/D shorted	

Pin	Name	Description	Color
1	VCC	+5 VDC	Red
2	D-	Data -	White
3	D+	Data +	Green
4	GND	Ground	Black

4 Cosmetic

4.1 Surface Definitions

Level A is the primary surface. For example, the front face of the adapter.

Level B is a secondary surface that may be viewed periodically by the end user, but is not in direct view during normal use. For example, the Cable (AC and DC), the sides of the housing, and the back of the housing.

Level C surfaces are not visible by the end user. For example, the inaccessible inside surfaces of the product.

4.2 Inspection Conditions

4.2.1 Inspection Method: Light source: Cool white fluorescent lamp 750 – 1000Lux

4.2.2 Viewing Distance: 30cm

4.2.3 Viewing Angle: 0 – 90 Degrees

4.2.4 Part Rotation Angle During Inspection:

Vertical Rotation Angle 180 Degrees

Horizontal Rotation Angle 360 Degrees

4.2.5 Viewing Time:

5 seconds total for all surfaces

4.3 Cosmetic Defect Definitions

Defect	Level A	Level B	Level C
Scratches, Dents, and Burrs (see Note 1)	Single defect not exceeding total surface area 5.50 mm ²	Two defects not exceeding total surface area 11 mm ²	Accept if it does not affect fit or function
Hairline Scratches, Gate Blush/Trim, Stress	Use 25% Contrast Standard to accept or reject for visible hairline scratches with depth of < 0.1 mm (total surface area not to exceed limits set in surface scratch below)		
Surface Scratches, Scuffs (see Note 1)	Single defect not exceeding total surface area of 5.7 mm ²	Two defects not exceeding total surface area 25 mm ²	Accept if it does not affect fit or function
Chips, Nicks, Cracks or Broken Features	Not Allowed		
Flash, Burrs, Sink Marks (see Note 2)	Not Allowed	Less than 0.5mm	Accept if it does not affect fit or function
Discoloration	Follow color samples		
Parting Lines	See diagram		
General Stains (not permanent)	Not allowed		
Rust	Not allowed		
Printing	No missing text or mistakes allowed. All letters should be visible. Refer to approved sample.		

Note 1:

Area called out in these fields are calculated based on limit samples. The values are calculated based on average area covered by the features.

Note 2:

DC over-mold flash marks have to be signed off on samples and provided as acceptable limits.

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Parting Line

Translation:

1. production for all components shall not be started before confirmation by HDP engineer.
2. Dimensions marked as ① are HDP control dimensions (to be inspected by IQC).
3. Dimensions marked as ② are customer control dimensions (to be inspected by IQC).
4. Dimensions unmarked please refer to 3D CAD.
5. Material should comply with ROHS standard.
6. Maximum draft angle is 1° unless otherwise notified.
7. diameters unmarked in drawing are 0.2mm.
8. Material: _____ (weight: $\pm 5\%$).
9. Surface treatment: _____.

Tolerance Gap from
side A to B 0.4mm

Third Angle Projection

Version NO.: _____

Drawn By: _____

Checked By: _____

Approved By: _____

Unit: MM

Size: A4

Scale: 1:1

Dimension

Angular	F	G	H	J
0-8	± 0.05	± 0.1	± 0.1	± 0.2
8-25	± 0.1	± 0.1	± 0.15	± 0.2
25-60	± 0.15	± 0.2	± 0.25	± 0.3
60-90	± 0.2	± 0.25	± 0.3	± 0.4
90-120	± 0.25	± 0.3	± 0.4	± 0.5
120-150	± 0.3	± 0.4	± 0.5	± 0.6
150-180	± 0.4	± 0.5	± 0.6	± 0.8
180-250	± 0.5	± 0.6	± 0.8	± 1.0
250-300	± 0.6	± 0.8	± 1.0	± 1.2
300-350	± 0.8	± 1.0	± 1.2	± 1.5
350-400	± 1.0	± 1.2	± 1.5	± 2.0
400-500	± 1.2	± 1.5	± 2.0	± 2.5
500-600	± 1.5	± 2.0	± 2.5	± 3.0
600-700	± 2.0	± 2.5	± 3.0	± 4.0
700-800	± 2.5	± 3.0	± 4.0	± 5.0
800-1000	± 3.0	± 4.0	± 5.0	± 6.0
1000-1200	± 4.0	± 5.0	± 6.0	± 8.0
1200-1500	± 5.0	± 6.0	± 8.0	± 10.0
1500-2000	± 6.0	± 8.0	± 10.0	± 12.0
2000-2500	± 8.0	± 10.0	± 12.0	± 15.0
2500-3000	± 10.0	± 12.0	± 15.0	± 20.0
3000-4000	± 12.0	± 15.0	± 20.0	± 25.0
4000-5000	± 15.0	± 20.0	± 25.0	± 30.0
5000-6000	± 20.0	± 25.0	± 30.0	± 40.0
6000-8000	± 25.0	± 30.0	± 40.0	± 50.0
8000-10000	± 30.0	± 40.0	± 50.0	± 60.0
10000-15000	± 40.0	± 50.0	± 60.0	± 80.0
15000-20000	± 50.0	± 60.0	± 80.0	± 100.0
20000-30000	± 60.0	± 80.0	± 100.0	± 120.0
30000-40000	± 80.0	± 100.0	± 120.0	± 150.0
40000-50000	± 100.0	± 120.0	± 150.0	± 200.0
50000-60000	± 120.0	± 150.0	± 200.0	± 250.0
60000-80000	± 150.0	± 200.0	± 250.0	± 300.0
80000-100000	± 200.0	± 250.0	± 300.0	± 400.0
100000-150000	± 250.0	± 300.0	± 400.0	± 500.0
150000-200000	± 300.0	± 400.0	± 500.0	± 600.0
200000-300000	± 400.0	± 500.0	± 600.0	± 800.0
300000-400000	± 500.0	± 600.0	± 800.0	± 1000.0
400000-500000	± 600.0	± 800.0	± 1000.0	± 1200.0
500000-600000	± 800.0	± 1000.0	± 1200.0	± 1500.0
600000-800000	± 1000.0	± 1200.0	± 1500.0	± 2000.0
800000-1000000	± 1200.0	± 1500.0	± 2000.0	± 2500.0
1000000-1500000	± 1500.0	± 2000.0	± 2500.0	± 3000.0
1500000-2000000	± 2000.0	± 2500.0	± 3000.0	± 4000.0
2000000-3000000	± 2500.0	± 3000.0	± 4000.0	± 5000.0
3000000-4000000	± 3000.0	± 4000.0	± 5000.0	± 6000.0
4000000-5000000	± 4000.0	± 5000.0	± 6000.0	± 8000.0
5000000-6000000	± 5000.0	± 6000.0	± 8000.0	± 10000.0
6000000-8000000	± 6000.0	± 8000.0	± 10000.0	± 12000.0
8000000-10000000	± 8000.0	± 10000.0	± 12000.0	± 15000.0
10000000-15000000	± 10000.0	± 12000.0	± 15000.0	± 20000.0
15000000-20000000	± 12000.0	± 15000.0	± 20000.0	± 25000.0
20000000-30000000	± 15000.0	± 20000.0	± 25000.0	± 30000.0
30000000-40000000	± 20000.0	± 25000.0	± 30000.0	± 40000.0
40000000-50000000	± 25000.0	± 30000.0	± 40000.0	± 50000.0
50000000-60000000	± 30000.0	± 40000.0	± 50000.0	± 60000.0
60000000-80000000	± 40000.0	± 50000.0	± 60000.0	± 80000.0
80000000-100000000	± 50000.0	± 60000.0	± 80000.0	± 100000.0
100000000-150000000	± 60000.0	± 80000.0	± 100000.0	± 120000.0
150000000-200000000	± 80000.0	± 100000.0	± 120000.0	± 150000.0
200000000-300000000	± 100000.0	± 120000.0	± 150000.0	± 200000.0
300000000-400000000	± 120000.0	± 150000.0	± 200000.0	± 250000.0
400000000-500000000	± 150000.0	± 200000.0	± 250000.0	± 300000.0
500000000-600000000	± 200000.0	± 250000.0	± 300000.0	± 400000.0
600000000-800000000	± 250000.0	± 300000.0	± 400000.0	± 500000.0
800000000-1000000000	± 300000.0	± 400000.0	± 500000.0	± 600000.0
1000000000-1500000000	± 400000.0	± 500000.0	± 600000.0	± 800000.0
1500000000-2000000000	± 500000.0	± 600000.0	± 800000.0	± 1000000.0
2000000000-3000000000	± 600000.0	± 800000.0	± 1000000.0	± 1200000.0
3000000000-4000000000	± 800000.0	± 1000000.0	± 1200000.0	± 1500000.0
4000000000-5000000000	± 1000000.0	± 1200000.0	± 1500000.0	± 2000000.0
5000000000-6000000000	± 1200000.0	± 1500000.0	± 2000000.0	± 2500000.0
6000000000-8000000000	± 1500000.0	± 2000000.0	± 2500000.0	± 3000000.0
8000000000-10000000000	± 2000000.0	± 2500000.0	± 3000000.0	± 4000000.0
10000000000-15000000000	± 2500000.0	± 3000000.0	± 4000000.0	± 5000000.0
15000000000-20000000000	± 3000000.0	± 4000000.0	± 5000000.0	± 6000000.0
20000000000-30000000000	± 4000000.0	± 5000000.0	± 6000000.0	± 8000000.0
30000000000-40000000000	± 5000000.0	± 6000000.0	± 8000000.0	± 10000000.0
40000000000-50000000000	± 6000000.0	± 8000000.0	± 10000000.0	± 12000000.0
50000000000-60000000000	± 8000000.0	± 10000000.0	± 12000000.0	± 15000000.0
60000000000-80000000000	± 10000000.0	± 12000000.0	± 15000000.0	± 20000000.0
80000000000-100000000000	± 12000000.0	± 15000000.0	± 20000000.0	± 25000000.0
100000000000-150000000000	± 15000000.0	± 20000000.0	± 25000000.0	± 30000000.0
150000000000-200000000000	± 20000000.0	± 25000000.0	± 30000000.0	± 40000000.0
200000000000-300000000000	± 25000000.0	± 30000000.0	± 40000000.0	± 50000000.0
300000000000-400000000000	± 30000000.0	± 40000000.0	± 50000000.0	± 60000000.0
400000000000-500000000000	± 40000000.0	± 50000000.0	± 60000000.0	± 80000000.0
500000000000-600000000000	± 50000000.0	± 60000000.0	± 80000000.0	± 100000000.0
600000000000-800000000000	± 60000000.0	± 80000000.0	± 100000000.0	± 120000000.0
800000000000-1000000000000	± 80000000.0	± 100000000.0	± 120000000.0	± 150000000.0
1000000000000-1500000000000	± 100000000.0	± 120000000.0	± 150000000.0	± 200000000.0
1500000000000-2000000000000	± 120000000.0	± 150000000.0	± 200000000.0	± 250000000.0
2000000000000-3000000000000	± 150000000.0	± 200000000.0	± 250000000.0	± 300000000.0
3000000000000-4000000000000	± 200000000.0	± 250000000.0	± 300000000.0	± 400000000.0
4000000000000-5000000000000	± 250000000.0	± 300000000.0	± 400000000.0	± 500000000.0
5000000000000-6000000000000	± 300000000.0	± 400000000.0	± 500000000.0	± 600000000.0
6000000000000-8000000000000	± 400000000.0	± 500000000.0	± 600000000.0	± 800000000.0
8000000000000-10000000000000	± 500000000.0	± 600000000.0	± 800000000.0	± 1000000000.0
10000000000000-15000000000000	± 600000000.0	± 800000000.0	± 1000000000.0	± 1200000000.0
15000000000000-20000000000000	± 800000000.0	± 1000000000.0	± 1200000000.0	± 1500000000.0
20000000000000-30000000000000	± 1000000000.0	± 1200000000.0	± 1500000000.0	± 2000000000.0
30000000000000-40000000000000	± 1200000000.0	± 1500000000.0	± 2000000000.0	± 2500000000.0
40000000000000-50000000000000	± 1500000000.0	± 2000000000.0	± 2500000000.0	± 3000000000.0
50000000000000-60000000000000	± 2000000000.0	± 2500000000.0	± 3000000000.0	± 4000000000.0
60000000000000-80000000000000	± 2500000000.0	± 3000000000.0	± 4000000000.0	± 5000000000.0
80000000000000-100000000000000	± 3000000000.0	± 4000000000.0	± 5000000000.0	± 6000000000.0
100000000000000-150000000000000	± 4000000000.0	± 5000000000.0	± 6000000000.0	± 8000000000.0
150000000000000-200000000000000	± 5000000000.0	± 6000000000.0	± 8000000000.0	± 10000000000.0
200000000000000-3000000000				

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4.4 Size / Weight

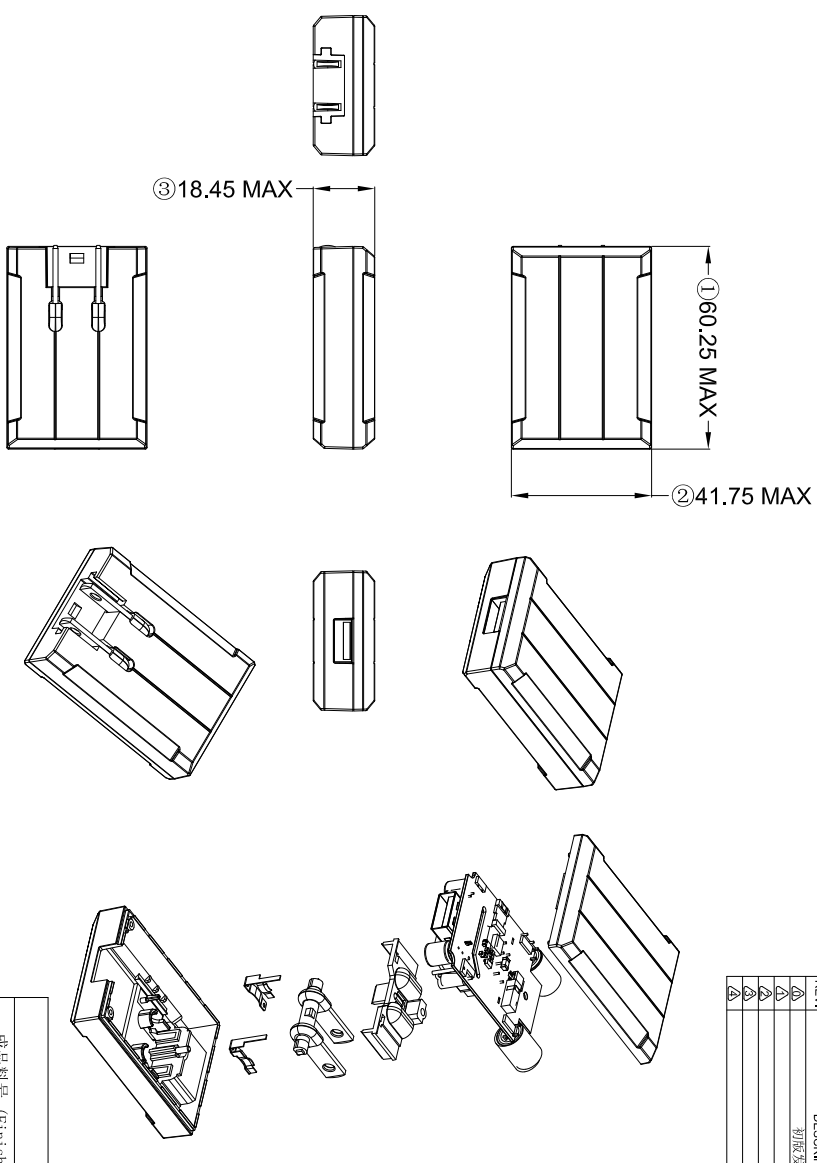
Product size should be 41.75W X 60.25L X 18.45H mm. Product weight is 40gm (weight does not include international adapters).

<p>Translation:</p> <p>1. production for all components shall not be started before confirmation by HDP engineer.</p> <p>2. Dimensions marked as ① are HDP control dimensions (to be inspected by IQC).</p> <p>3. Dimensions marked as ② are customer control dimensions (to be inspected by IQC).</p> <p>4. Dimensions unmarked please refer to 3D CAD.</p> <p>5. Material should comply with ROHS standard.</p> <p>6. Maximum draft angle is 1° unless otherwise notified.</p> <p>7. diameters unmarked in drawing are 0.2mm.</p> <p>8. Material: _____ (weight: $\pm 5\%$).</p> <p>9. Surface treatment: _____.</p> <p>10. Angular measurements: (+) counter-clockwise direction.</p>			
<p>Third Angle Projection</p> <p>It is intended for the use of the drawing in the third angle projection. It is not to be used for the first angle projection. Any part of the drawing not shown in the third angle projection shall be considered as not shown.</p>		<p>Scale: 1:1</p> <p>Unit: MM</p> <p>Version NO.: A1</p> <p>Drawn By: 周英鹏</p> <p>Checked By: 2015.06.10</p> <p>Approved By:</p>	
<p>Dimension: F G H J</p> <p>Angular: $\pm 0.25^\circ$</p> <p>Tolerance: ± 0.15 ± 0.1 ± 0.1 ± 0.2</p> <p>Part NO. 标准面指示</p>		<p>Rev. DESCRIPTION BY DATE ECN NO.</p> <p>1. 初版发行 VP-Zhou 2015.05.28</p> <p>2. 增加C面要求 VP-Zhou 2015.06.10</p>	

MODEL NUMBER	HDP05-MD05010U	PAGE	13 of 17
PART NUMBER	HDP05-MD-BUSB-4	REVISION	A1 (Pre)
DESCRIPTION	I.T.E. & MEDICAL POWER SUPPLY BLACK	DATE	Aug 28, 2018

4.5 Assembly Drawing

Translation(注意):
1. production for all components shall not be started before confirmation by HDP engineer.
(所有零件都要经过工程师确认后才可以生产)
2. Dimensions marked as ○ are HDP control dimensions and must comply to Cpm ≥ 1.33 to be inspected by IQC.
(有○标记的尺寸为重要管制尺寸, 其Cpm必需 ≥ 1.33 (IQC必检))
3. Dimensions marked as ■ are customer control dimensions (to be inspected by IQC).
(有■标记的尺寸为客户重要管制 (IQC必检) 尺寸)
4. Dimensions unmarked please refer to 3D CAD (未标示的尺寸请参考3D CAD).
5. Material should comply with ROHS standard (产品材质应符合ROHS).
6. Material (材质): PC945
7. Surface treatment (表面处理): 表面喷粉, MT11010 (weight (重量): $\pm 5\%$).



Third Angle Projection

Version NO.: 1
Drawn By: 肖志斌
2018.02.24

Scale: 1:1
Unit: MM

Dimension Tolerance

Dimension	F	G	H	J
0-8	± 0.08	± 0.1	± 0.1	± 0.2
8-25	± 0.08	± 0.1	± 0.15	± 0.2
25-80	± 0.1	± 0.2	± 0.25	± 0.3
80-200	± 0.25	± 0.3	± 0.4	± 0.6
200-500	± 0.5	± 0.6	± 0.8	± 1.0
500-2000	± 1.0	± 1.0	± 1.5	± 1.7
2000+	± 2.0	± 2.0	± 3.0	± 3.0

Model NO. / Project Name: MED-01 (B)
MED-01 (B)
Finished Goods Part NO.
Part NO.
Drawing Name:
Assembly drawing

差异表 (Comparison Table)

成品料号 (Finished Goods P/N)	描述 (Description)
HDP05-MD-BUSB-4	黑色 (Black)
HDP05-MD-WUSB-4	白色 (White)

REV.	DESCRIPTION	BY	DATE	ECN NO.
1	初版发行	肖志斌	2018.02.24	
2				
3				
4				
5				

5 Electromagnetic Compatibility

The following tests are required:

Power Conversion Device	EU Reference	Title of Standard	International Reference	Test Level for Heavy Industrial	Test Level for Light Industrial	Test Level for 48 VDC p/s
AC-DC, DC-DC, Power Supplies	EN55022:1998 To be soon updated to EN55022:2006	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement	CISPR22:1997	Class "B" 4dB of margin Class "A" or Class "B" for servers	Class "B" 4dB of margin Class "A" or Class "B" for servers	Class "B" 4dB of margin Class "A" or Class "B" for servers
DC-DC, DC-DC Power Supplies	EN55024:1998 (EN50082-2:1995 updated to EN61000-6-2:2001 for -48 VDC supply)	Information technology equipment – Immunity Characteristics – Limits and methods of measurement	CISPR24:1997			Different tests and limits for DC power supplies
AC-DC, AC-DC Power Supplies	EN61000-3-2:2000 (PFC Power Supplies ONLY if rated greater than 75W)	Electromagnetic Compatibility (EMC) – Part 3: Limits – Section 2: Limits for harmonic current emissions (Equipment input current up to and including 16 A per phase)	IEC 61000-3-2:2000	Must meet Class D requirements	Must meet Class D requirements	N/A
AC-DC, AC-DC Power Supplies	EN61000-3-3:1995 (PFC Power Supplies ONLY)	Electromagnetic Compatibility (EMC) – Part 3: Limits – Section 3: Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current up to and including 16A	IEC 61000-3-3:1994	Meet specification	Meet specification	N/A
AC-DC, DC-DC, Power Supplies	EN61000-4-2	Electromagnetic Compatibility (EMC) – Part 4: – Section 2: Electrostatic discharge immunity test	IEC 1000-4-2	(+/-) 2, 4, 8, 12 and 15 kV air (+/-) 2, 4, 6, 8 kV contact discharge	(+/-) 2, 4, 8, 12 and 15 kV air (+/-) 2, 4, 6, 8 kV contact discharge	(+/-) 2, 4, 8, 12 and 15 kV air (+/-) 2, 4, 6, 8 kV contact discharge
AC-DC, DC-DC, Power Supplies	EN 61000-4-3 + Israeli Deviations in SI 961 part 6.2	Electromagnetic Compatibility (EMC) – Part 4: – Section 3: Radiated, radio-frequency electromagnetic field, immunity test	IEC 1000-4-3 Basic Standard ENV 50140	10V/m 80-1000MHz, 80% AM 900 +/- 5MHz 50%, 200Hz	3V/m 80-1000MHz, 80% AM 900 +/- 5MHz 50%, 200Hz	10V/m 80-1000MHz, 80% AM 900 +/- 5MHz 50%, 200Hz
AC-DC, DC-DC, Power Supplies	EN 61000-4-4	Electromagnetic Compatibility (EMC) – Part 4: – Section 4: Electrical fast transient/burst immunity test	IEC 1000-4-4	1, 2, 4kV – Power 0.5, 1, and 2kV – Signal	1, 2 kV – Power 0.5, 1 kV – Signal	1, 2 kV – Power 0.5, 1, and 2kV – Signal
AC-DC, DC-DC, Power Supplies	EN 61000-4-5	Electromagnetic Compatibility (EMC) – Part 4: – Section 5: Surge Immunity Test	IEC 1000-4-5	1, 2kV differential 2, 4kV common	0.5, 1 kV diff. 0.5, 1, 2, 2.5 common	0.5, 1kV differential 0.5 1kV common
AC-DC, DC-DC, Power Supplies	EN 61000-4-6 + Israeli Deviations in SI 961 part 6.2	Electromagnetic Compatibility (EMC) – Part 4: – Section 6: Conducted disturbances induced by radio-frequency fields – immunity test	IEC 1000-4-6 Basic Standard ENV 50141	10V/m 80% AM (1kHz)	3 V/m 80% AM (1kHz)	10 V/m 80% AM (1kHz)
AC-DC, DC-DC, Power Supplies	EN 61000-4-8	Electromagnetic Compatibility (EMC) – Part 4: – Section 8: Power-frequency magnetic field immunity test	IEC 1000-4-8	30 A/m (r.m.s.)	1 A/m (r.m.s.)	30 A/m (r.m.s.)
AC-DC, DC-DC, Power Supplies	EN 61000-4-11	Electromagnetic Compatibility (EMC) – Part 4: – Section 11: Voltage dips, short interruptions and voltage variations immunity test	IEC 1000-4-11	30% for 0.5 S >95% for 10mS >95% for 5 S	30% for 0.5 S >95% for 10mS >95% for 5 S	30% for 0.5 S >95% for 10mS >95% for 5 S

Light Industrial: EN55022:1998 (Emission) and EN 61000-6-1:2001 (Immunity)

Heavy Industrial: EN55011 (Emission) and EN 610006-2:2005 (Immunity)

The content of the test report, at a minimum, includes:

- Test object used (development status with serial number/sample name)
- Mode(s) of operation of the test object
- Test result
- Photograph/sketch of the test environment along with listed test conditions
- Applied measurement tools/equipment
- Ambient temperature for ESD-tests. Also include air pressure and air humidity
- Name of Test Engineer
- Date of the test

MODEL NUMBER	HDP05-MD05010U	PAGE	15 of 17
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DESCRIPTION	I.T.E. & MEDICAL POWER SUPPLY BLACK	DATE	Aug 28, 2018

6 Labeling

6.1 Labeling the Device

The labeling must comply with IEC 60950 and IEC 60601 requirements.

The following information as a minimum must be printed on the adapter:

Input rating
Output rating
Made in China
Model and/or part number
Production lot or date code

6.2 Label Drawing

REV.	DESCRIPTION	BY	DATE	ECN NO.
△	初版发行	肖志斌	2018.02.24	
△	增加 EA 去掉 R	肖志斌	2018.08.02	ECN-154
△	去掉 SGS 编号	肖志斌	2018.08.21	

MODEL: HDP05-MD05010U
INPUT: 100-240Vac~ 50/60Hz
OUTPUT: 5Vdc === 1A, 5W

0.15A

EFFICIENCY LEVEL: VI

CE

RoHS

MADE IN CHINA
www.hdp-power.com

LOT YYWW

1.1 R

2.4 R

1.1 R

此处内容为丝印

虚线框不需要丝印上去

文字不要印在两条槽中

丝印放大图

此处内容为镭射

注意事项:
X,X R = Reference dimension
丝印颜色 PANTONE 8U/8C

料 号		描述	
HDP05-MD-BUSB-4		黑色	
HDP05-MD-WUSB-4		白色	

Translation(注记):

1.production for all components shall not be started before confirmation by HDP engineer.
(所有零部件都需经边期工程师确认后才可生产.)

2.Dimensions marked as ① are HDP control dimensions and must comply to Cpm: 1.33(to be inspected by IQC).
(有“①”标记的尺寸为重要管制尺寸, 其Cpm必需≥1.33 (IQC必检))

3.Dimensions marked as ■ are customer control dimensions (to be inspected by IQC).
(有“■”标记的尺寸为客户重要管制 (IQC必检) 尺寸.)

4.Dimensions unmarked please refer to 3D CAD(未标示的尺寸请参照3D CAD).

5.Material should comply with ROHS standard(产品材质应符合ROHS).

8.Material (材质): 见差异表 (weight (重量): g±5%).

9.Surface treatment (表面处理): 见差异表

Third Angle Projection		Version NO. : A2		Scale : 1:1		Unit : MM		Sheet : 1/1		Size : A3		Tolerance		Model NO. / Project Name:	
Quotation	Sample	Drawn By	Checked By	Version NO. : A2	Scale : 1:1	Unit : MM	Sheet : 1/1	Size : A3	Dimension	F	G	H	J	Finished Goods Part NO.	Part NO.
		肖志斌		2018,08,21					0-8	±0.05	±0.1	±0.1	±0.2	HDP05-MD05010U 见差异表	/
								8-25	±0.08	±0.15	±0.15	±0.3			
								25-60	±0.12	±0.2	±0.25	±0.4			
								60-250	±0.25	±0.3	±0.4	±0.6			
								250-800	±0.5	±0.6	±0.8	±1.0			
								800-2500	±1.0	±1.0	±1.5	±1.7	Part Name, 丝印图	FMED004	
								2500~	±2.0	±2.0	±3.0	±3.0			

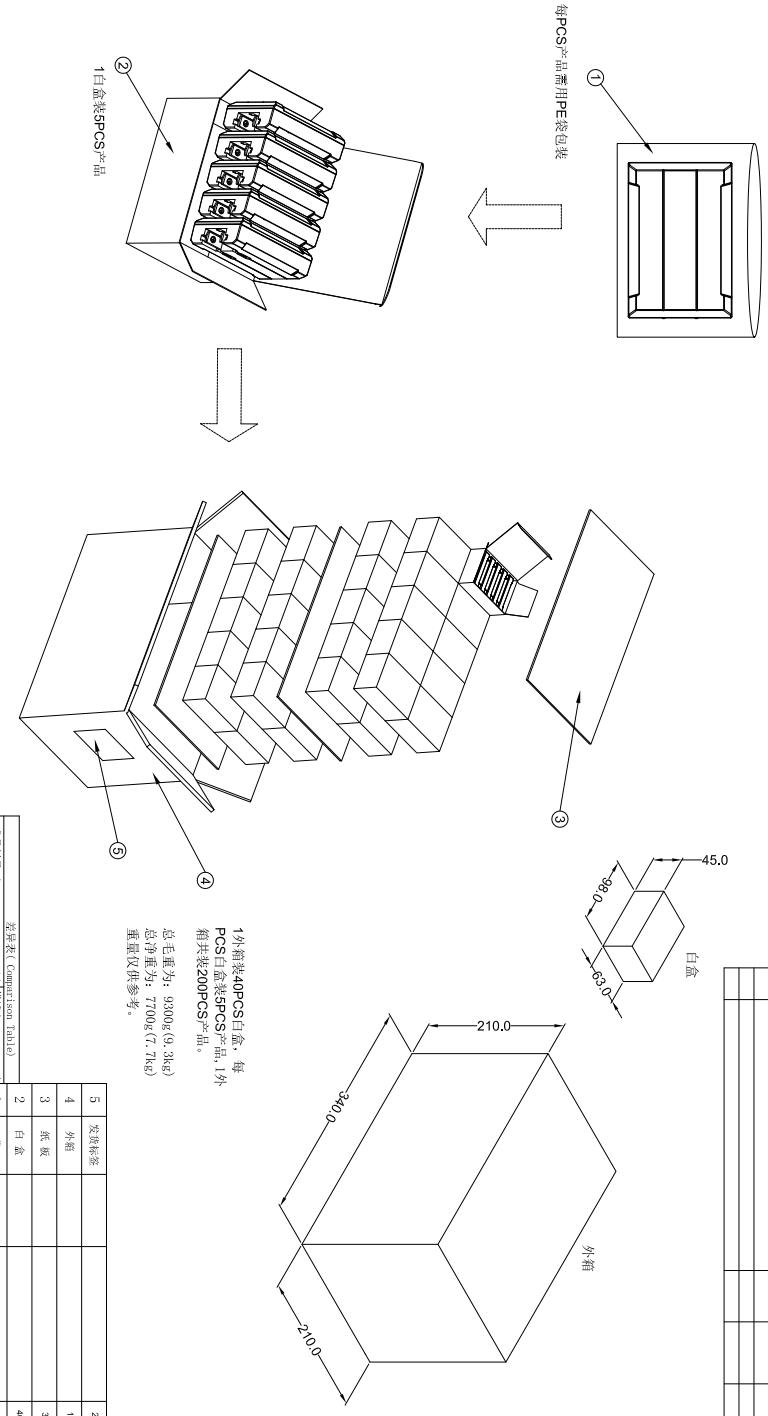
MODEL NUMBER	HDP05-MD05010U	PAGE	16 of 17
PART NUMBER	HDP05-MD-BUSB-4	REVISION	A1 (Pre)
DESCRIPTION	I.T.E. & MEDICAL POWER SUPPLY BLACK	DATE	Aug 28, 2018

7 Packaging

7.1 Drawing

Translation(注意):

1. production for all components shall not be started before confirmation by HDP engineer.
2. Dimensions marked as ① are HDP control dimensions (to be inspected by IQC).
3. Dimensions marked as ② are customer control dimensions (to be inspected by IQC).
4. Dimensions unmarked please refer to 3D CAD (未标示的尺寸请参照3D CAD).
5. Material should comply with ROHS standard (产品材质应符合ROHS).
6. Material (材质): _____ (weight (重量): $\pm 5\%$).
7. Surface treatment (表面处理): _____.



每PCS产品需用PE袋包装

① 白盒装SPCS产品

② 外箱

③ 白盒

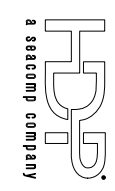
④ 内箱

⑤ 产品

1外箱装40PCS白盒, 每
PCS白盒装5PCS产品, 1外
箱共装200PCS产品。

总毛重为: 9200g (9.2kg)
总净重为: 7700g (7.7kg)
重量仅供参考。

序号	名称	料号	描述	用量
1	外箱			2PCS
2	内箱			4PCS
3	白盒			200PCS
4	PE袋			200PCS



a seacomp company

Third Angle Projection		This drawing is the property of HDP corporation. It is to be used for the production of the product only. It is not to be reproduced, stored, or distributed without the written permission of HDP.	
Version NO.:	1	Scale:	1:1
Drawn By:	肖志斌	Unit:	MM
Checked By:		Approved By:	
Tooling:			
Official Issue:	2018.02.24		

Dimension	F	G	H	J	Part NO.
0-4	±0.07	±0.1	±0.2		
5-25	±0.08	±0.15	±0.3		
26-40	±0.1	±0.2	±0.4		
41-60	±0.15	±0.3	±0.6		
61-80	±0.2	±0.4	±0.8		
81-100	±0.3	±0.6	±1.0		
101-125	±0.4	±0.8	±1.2		
126-150	±0.5	±1.0	±1.5		
151-200	±0.6	±1.2	±2.0		
201-250	±0.8	±1.5	±2.5		
251-300	±1.0	±2.0	±3.0		
301-400	±1.2	±2.5	±3.5		
401-500	±1.5	±3.0	±4.0		
501-600	±2.0	±4.0	±5.0		
601-800	±2.5	±5.0	±6.0		
801-1000	±3.0	±6.0	±7.0		
1001-1250	±3.5	±7.0	±8.0		
1251-1500	±4.0	±8.0	±9.0		
1501-2000	±5.0	±10.0	±11.0		
2001-2500	±6.0	±12.0	±14.0		
2501-3000	±7.0	±15.0	±17.0		
3001-4000	±8.0	±18.0	±21.0		
4001-5000	±10.0	±20.0	±25.0		
5001-6000	±12.0	±25.0	±30.0		
6001-8000	±15.0	±30.0	±35.0		
8001-10000	±20.0	±40.0	±45.0		
10001-12500	±25.0	±50.0	±55.0		
12501-15000	±30.0	±60.0	±65.0		
15001-20000	±40.0	±80.0	±90.0		
20001-25000	±50.0	±100.0	±110.0		
25001-30000	±60.0	±120.0	±135.0		
30001-40000	±75.0	±150.0	±175.0		
40001-50000	±90.0	±180.0	±210.0		
50001-60000	±110.0	±220.0	±260.0		
60001-80000	±140.0	±280.0	±330.0		
80001-100000	±170.0	±350.0	±410.0		
100001-125000	±210.0	±420.0	±500.0		
125001-150000	±260.0	±520.0	±610.0		
150001-200000	±320.0	±640.0	±750.0		
200001-250000	±400.0	±800.0	±930.0		
250001-300000	±500.0	±1000.0	±1160.0		
300001-400000	±630.0	±1260.0	±1450.0		
400001-500000	±790.0	±1580.0	±1820.0		
500001-600000	±990.0	±1980.0	±2280.0		
600001-800000	±1250.0	±2500.0	±2870.0		
800001-1000000	±1560.0	±3120.0	±3570.0		
1000001-1250000	±1950.0	±3900.0	±4450.0		
1250001-1500000	±2440.0	±4880.0	±5540.0		
1500001-2000000	±3050.0	±6100.0	±6950.0		
2000001-2500000	±3790.0	±7580.0	±8610.0		
2500001-3000000	±4680.0	±9360.0	±10620.0		
3000001-4000000	±5850.0	±11700.0	±13230.0		
4000001-5000000	±7320.0	±14640.0	±16540.0		
5000001-6000000	±9150.0	±18300.0	±20750.0		
6000001-8000000	±11440.0	±22880.0	±25940.0		
8000001-10000000	±14180.0	±28360.0	±32170.0		
10000001-12500000	±17480.0	±34960.0	±39460.0		
12500001-15000000	±21340.0	±43360.0	±48610.0		
15000001-20000000	±26680.0	±53360.0	±59660.0		
20000001-25000000	±33350.0	±66400.0	±74510.0		
25000001-30000000	±41190.0	±82320.0	±92130.0		
30000001-40000000	±51490.0	±102960.0	±115660.0		
40000001-50000000	±63240.0	±126720.0	±142060.0		
50000001-60000000	±77550.0	±155100.0	±173530.0		
60000001-80000000	±97190.0	±195360.0	±219410.0		
80000001-100000000	±121490.0	±243840.0	±274210.0		
100000001-125000000	±150620.0	±301680.0	±339010.0		
125000001-150000000	±184530.0	±369120.0	±411210.0		
150000001-200000000	±230670.0	±461760.0	±514010.0		
200000001-250000000	±288870.0	±572160.0	±635010.0		
250000001-300000000	±359270.0	±710160.0	±786010.0		
300000001-400000000	±448830.0	±888320.0	±976010.0		
400000001-500000000	±558430.0	±111040.0	±1226010.0		
500000001-600000000	±688030.0	±137600.0	±1516010.0		
600000001-800000000	±865630.0	±171360.0	±1896010.0		
800000001-1000000000	±1083230.0	±214240.0	±2376010.0		
1000000001-1250000000	±1351630.0	±267840.0	±2956010.0		
1250000001-1500000000	±1679630.0	±334720.0	±3696010.0		
1500000001-2000000000	±2099230.0	±418560.0	±4596010.0		
2000000001-2500000000	±2623230.0	±523360.0	±5796010.0		
2500000001-3000000000	±3261230.0	±650240.0	±7196010.0		
3000000001-4000000000	±4053230.0	±812800.0	±8996010.0		
4000000001-5000000000	±5017230.0	±1011200.0	±11196010.0		
5000000001-6000000000	±6163230.0	±1245600.0	±13796010.0		
6000000001-8000000000	±7753230.0	±1558400.0	±17246010.0		
8000000001-10000000000	±9717230.0	±1947200.0	±21746010.0		
10000000001-12500000000	±12141230.0	±2433600.0	±27196010.0		
12500000001-15000000000	±15065230.0	±3017600.0	±33696010.0		
15000000001-20000000000	±18455230.0	±3747200.0	±41196010.0		
20000000001-25000000000	±23069230.0	±4619200.0	±51496010.0		
25000000001-30000000000	±28889230.0	±5723200.0	±63596010.0		
30000000001-40000000000	±35929230.0	±7105600.0	±78696010.0		
40000000001-50000000000	±44889230.0	±8888000.0	±97696010.0		
50000000001-60000000000	±55849230.0	±11110400.0	±122696010.0		
60000000001-80000000000	±68809230.0	±13776000.0	±151696010.0		
80000000001-100000000000	±86569230.0	±17152000.0	±189696010.0		
100000000001-125000000000	±108329230.0	±21440000.0	±237696010.0		
125000000001-150000000000	±135169230.0	±26784000.0	±295696010.0		
150000000001-200000000000	±167969230.0	±33472000.0	±369696010.0		
200000000001-250000000000	±209929230.0	±41856000.0	±459696010.0		
250000000001-300000000000	±262329230.0	±52336000.0	±579696010.0		
300000000001-400000000000	±326129230.0	±65024000.0	±719696010.0		
400000000001-500000000000	±405329230.0	±81280000.0	±899696010.0		
500000000001-600000000000	±501729230.0	±101120000.0	±1119696010.0		
600000000001-800000000000	±616329230.0	±124560000.0	±1379696010.0		
800000000001-1000000000000	±775329230.0	±155840000.0	±1724696010.0		
1000000000001-1250000000000	±971729230.0	±194720000.0	±2174696010.0		
1250000000001-1500000000000	±1214129230.0	±243360000.0	±2719696010.0		
1500000000001-2000000000000	±1506529230.0	±301760000.0	±3369696010.0		
2000000000001-2500000000000	±1845529230.0	±374720000.0	±4119696010.0		
2500000000001-3000000000000	±2306929230.0	±461920000.0	±5149696010.0		
3000000000001-4000000000000	±2888929230.0	±572320000.0	±6359696010.0		
4000000000001-5000000000000	±3592929230.0	±710560000.0	±7869696010.0		
5000000000001-6000000000000	±4488929230.0	±888800000.0	±9769696010.0		
6000000000001-8000000000000	±5584929230.0	±1111040000.0	±12269696010.0		
8000000000001-10000000000000	±6880929230.0	±1377600000.0	±15169696010.0		
10000000000001-12500000000000	±8656929230.0	±1715200000.0	±18969696010.0		
12500000000001-15000000000000	±10832929230.0	±2144000000.0	±23769696010.0		
15000000000001-20000000000000	±13516929230.0	±2678400000.0	±29569696010.0		
20000000000001-25000000000000	±16796929230.0	±3347200000.0	±36969696010.0		
25000000000001-30000000000000	±20992929230.0	±4185600000.0	±45969696010.0		
30000000000001-40000000000000	±26232929230.0	±5233600000.0	±57969696010.0		
40000000000001-50000000000000	±32612929230.0	±6502400000.0	±71969696010.0		
50000000000001-60000000000000	±40532929230.0	±8128000000.0	±89969696010.0		
60000000000001-80000000000000	±50172929230.0	±10112000000.0	±111969696010.0		
80000000000001-100000000000000	±61632929230.0	±12456000000.0	±137969696010.0		
100000000000001-125000000000000	±77532929230.0	±15584000000.0	±172469696010.0		
125000000000001-150000000000000	±97172929230.0	±19472000000.0	±217469696010.0		
150000000000001-200000000000000	±121412929230.0	±24336000000.0	±271969696010.0		
200000000000001-250000000000000					

7.2 Packaging Test

1	Bulk product	<p>Drop package on each side for a total of 10 drops (2 opposite corners, 3 adjacent sides of bottom corner, then all 6 faces) per system on concrete floor from a height of 1.0 meter. This is an operational test.</p> <p>Pass/Fail Criteria: 1. The systems shall pass Functional Test. 2. No visible damage to product and gift box.</p>
2	Drop test for Packaged Product (gift box, clamshell, etc.)	<p>Drop fully packaged products (in gift box or clamshell) onto a concrete floor from height of 153cm for 10 drops on the six surfaces and four corners.</p> <p>Pass/Fail Criteria: 1. The systems shall pass Functional Test. 2. Paper or PET deformation is acceptable. No damage in product integrity of packaging materials (e.g. sealed edge openings) is allowed.</p>
3	Sinusoidal Vibration	<p>Test with sine wave that will sweep the frequency from 7 - 500 hertz for construction test; 5 - 70 hertz for packaging test. Displacement >3.15mm. Total test duration time shall be 30 min (10 min per axis). Test shall be performed in three mutually perpendicular axes: Z-axis (vertical), Y-axis (fore-aft), and X-axis (lateral).</p> <p>Pass/Fail Criteria: The UUT and packaging shall withstand the above test procedure without visible damage or performance decline during operation.</p>

8 Warranty

One year warranty for defects arising from workmanship and materials per the SEACOMP Warranty, RMA, and Failure Analysis Policy.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.