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Product Specification

1. SCOPE

1.1 Content

1.1.1 This specification covers performance, tests and quality requirements for DDP (C) or DDPN (C) series

2. CONSTRUCTION

2.1 Materials & Finish

2.1.1 Housing: PBT with glass – fiber reinforced: ul94v-0

2.1.2 Contacts: (a) plug: brass (b) socket: phosphor bronze

2.1.3 Shell: steel zinc plated or tin plated

2.1.4 Bracket: steel

2.1.5 Rivet: Brass

2.1.6 Ground spring: steel

2.1.7 Board lock: Brass

2.2 Operating temperature range: -55°C to $+85^{\circ}\text{C}$

2.3 Storage temperature range: -55°C to $+105^{\circ}\text{C}$

3. APPLICABLE DOCUMENTS

The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, latest edition of the specification applies. In the event of conflict between requirements of this specification and product drawing, product drawing shall take precedence.

Commercial standards, specifications and report: EIA-364

4. DIMENSIONAL & ELECTRICAL CHARACTERISTICS INFORMATION

See product drawing DDP** for dimensional & electrical characteristics information

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5. PERFORMANCE

5.1 Electrical Performance

Test Description	Requirement	Procedure
Contacts resistance (Initial value)	1.D-SUB maximum: 20 mohms 2. The upper stack of the double stacked D-SUB maximum: 30 mohms	Maximum applied voltage 20mv at a current of 100mA per. EIA-364-23A
Dielectric Withstanding Voltage	No Breakdown	Test between adjacent contacts at 500VAC (rms) and 60 seconds hold time per.EIA-364-20B
Insulation Resistance	1000 M Ω minimum	Test between adjacent contacts at 500vdc (rms) and 2 minutes per.EIA-364-21B

5.2 MECHANICAL

Test Description	Requirement	Procedure
Durability	Contacts resistance 1.D-SUB maximum: 40 mohms after 1000 cycles 2. The upper stack of the double stacked D-SUB maximum: 50 mohms	The sample should be mounted in the tester and fully mated and unmated 300 times per hour at the rate of 25mm/min. EIA-364-09C.
Solderability	Solderable area shall have minimum of 95% solder coverage.	Per . EIA-364-52
Mating and Unmating Forces	See table 1	Mate the connector with its mating part and measure force per EIA-364-13B

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table 1

CKTS	Mating force	Unmating force
9	4.54kg max	0.34kg min
15	7.72kg max	0.45Kg min
25	12.71kg max	0.79Kg min
37	17.71kg max	1.14kg min

High density

CKTS	Mating force	Unmating force
15	5.50kg max	1.0kg min
26	7.72kg max	1.0Kg min
44	12.71kg max	1.0Kg min
62	17.71kg max	1.0kg min

5.3 ENVIRONMENTAL

Salt spray	No damage	Subject mated connector to test salt spray for 48 hour per EIA-364-26B
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6. PACKING

All parts shall be packaged and packed to protect against physical damage, corrosion and deterioration during shipment and storage.

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