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<b>TITLE</b>  <b>D-SUB CONNECTOR –VERTICAL PCB</b>	<b>REV</b>	<b>ECN NO.</b>	<b>REV</b>	<b>ECN NO.</b>
	A	011403		
	B	051230		
<b>SPEC NO. PS-DS-0002</b>				



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**1. SCOPE**

This specification defines the performances for DS\*(F) or DSH\*(F) series.

**2. PRODUCT DESCRIPTION**

The D Subminiature straight type connector consists of extension, solder cup and high density. For materials, plating & markings see product drawing.

**3. APPLICABLE DOCUMENTS AND SPECIFICATIONS**

See product drawing and other sections of this specification for the relevant reference documents and specifications. In cases where the specification differs from the product drawings, the product drawings take precedence.

**4. RATINGS**

4.1	Current	5 Amps
4.2	Voltage	300 VDC (maximum)
4.3	Temperature	-55°C to 105°C
4.4	Durability	500 mating cycles

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### 5. PERFORMANCE

#### Electrical Performance

Test Description	Requirement	Procedure
Contacts resistance (Initial value )	maximum: 30 m Ω	Maximum applied voltage 20mv at a current of 100mA per. EIA-364-23A
Dielectric Withstanding Voltage	No Breakdown	Test between adjacent contacts at 1000VAC (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	Appearances-no damage 30 m Ω Maximum (change from initial)	The sample should be mounted in the tester and fully mated and unmated 300 times per hour at the rate of 25mm/min. per EIA-364-09C.
Solderability	Solderable area shall have minimum of 95% solder coverage.	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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