SPECIFICATION

SPEC. NO. : DG060082         REV : A

DATE : 07-Jul-2006

PRODUCT NAME : RJ45 1×1 Tab up w/ Transformer & w/o LED

PRODUCT NO : P55-PZ1-1NM9(Lead Free)

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Refer to the manufacturer's website for the latest revision of this datasheet.

<table>
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<th>CHECKED</th>
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<th>DCC ISSUE</th>
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<tr>
<td>NAME</td>
<td>Matt Lee</td>
<td>Kean Yang</td>
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Product Number : P55-PZ1-1NM9(Lead Free)

Product Description : RJ45 1x1 Tab up w/ Transformer & w/o LED

1 SCOPE

1.1 Content

1.1.1 This specification covers performance, tests and quality requirements for RJ45 1x1 Tab up w/ Transformer & w/o LED.

2 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.

2.1 Commercial standards, specifications and report

2.1.1 MIL-STD-1344A

2.1.2 EIA-364

3 MECHANIC DIMENSIONS

3.1 Dimensions

General Tolerance: . X : ±0.38

. XX : ±0.25

Refer to the manufacturer's website for the latest revision of this datasheet
3.2 PCB Layout

4 REQUIREMENTS

4.1 Design and Construction

4.1.1 Product shall be of design, construction and physical dimensions specified on applicable product drawing.

4.2 Materials and Finish

4.2.1 Contact :

4.2.1.1 RJ Contact : Phosphor Bronze

Finish : (a) Contact Area : 30 μ” min. Gold
(b) Solder tail Area : 100 μ” min. Matted Tin
(c) Underplating : 50–100 μ” Nickel over all

4.2.1.2 Joint Contact : Brass

Finish : Gold flash or 100 μ” min. Matted Tin & 50–100 μ” Nickel over all

4.2.2 Plastic Part :

4.2.2.1 Housing : Thermoplastic, PA46, Black

Flame Class : UL94 V-0

4.2.2.2 Case : Thermoplastic, PA46, Black

Flame Class : UL94 V-0

4.2.3 Shell

4.2.3.1 Front Shell : Brass
Finish: 120 μ” min. Nickel over

4.2.3.2 Back Shell: Stainless steel, SUS304

4.2.4 Transformer
   4.2.4.1 Material: FR4,
   4.2.4.2 Two Layer PCB

4.3 Operating and Storage Temperature
   4.3.1 Operating Temperature: 0°C TO +70°C
   4.3.2 Non-Operating Temperature: -40°C TO +85°C

4.4 Ratings
   4.4.1 Voltage rating: 125 VAC
   4.4.2 Current rating: 1.5 A

4.5 Performance and Test Description
   Product is designed to meet electrical, mechanical and environmental performance requirements specified in below table. All tests are performed at ambient environmental conditions per MIL-STD-1344A and EIA-364 unless otherwise specified.

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

Refer to the manufacturer's website for the latest revision of this datasheet.
5 ELECTRICAL CHARACTERISTICS

5.1 Schematic

![Schematic Diagram]

5.2 Transmitter filter & Receiver filter
Type: Balance low pass 100Ω impedance
Insertion loss: 1~100 MHz –1.0dB MAX.
   Return loss: 1~30 MHz –18dB MIN. load 100Ω
   30~60 MHz –16dB MIN. load 100Ω
   60~80 MHz –12dB MIN. load 100Ω

5.3 Common Mode Rejection
   @ 1~100 MHz –30dB MIN.

5.4 Cross Talk
   @ 1~100 MHz –35dB MIN

5.5 INDUCTANCE @ 100KHz, 0.1V, 8mA DC BIAS
   Input(1-8), Input(2-9): 350μH MIN.

5.6 Hi Pot TEST
   Input(1-8) to Output(1-2): 1500VAC, 60sec
   Input(2-9) to Output(3-6): 1500VAC, 60sec

Refer to the manufacturers' website for the latest revision of this datasheet.
6  ORDER INFORMATION

P  5 5 - P  X  X -  X  XX  X  A  B  C  D  E

P: Lead Free

A: LED Code

<table>
<thead>
<tr>
<th>W/O LED :</th>
<th>Yellow</th>
<th>Green</th>
<th>Orange</th>
<th>G/O</th>
<th>G/Y</th>
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<tr>
<td>Z</td>
<td>0</td>
<td>4</td>
<td>8</td>
<td>C</td>
<td>H</td>
</tr>
<tr>
<td>Left LED</td>
<td>Green</td>
<td>1</td>
<td>5</td>
<td>9</td>
<td>D</td>
</tr>
<tr>
<td>Orange</td>
<td>2</td>
<td>6</td>
<td>A</td>
<td>F</td>
<td>K</td>
</tr>
<tr>
<td>G/O</td>
<td>3</td>
<td>7</td>
<td>B</td>
<td>G</td>
<td>M</td>
</tr>
<tr>
<td>G/Y</td>
<td>N</td>
<td>P</td>
<td>Q</td>
<td>R</td>
<td>S</td>
</tr>
</tbody>
</table>

B: Grounding Spring Code
- 0: w/o All Grounding Spring
- 1: w/ All Grounding Spring
- 2: w/ Top Grounding Spring Only

C: Logo Code
- 0: w/o Speed Tech Logo
- 1: w/ Speed Tech Logo

D: Schematic Code
- NM: NM Type Circuit

E: Contact Plating Code
- 0: Tin/Lead 100 μ”
- 6: 1~3 μ” Gold on Contact Area
- 7: 10 μ” minimum Gold on Contact Area
- 8: 15 μ” minimum Gold on Contact Area
- 9: 30 μ” minimum Gold on Contact Area
- A: 50 μ” minimum Gold on Contact Area
7 Profile of Wave Solder

7.1 PROFILE OF WAVE SOLDER

SUGGESTED WAVE SOLDER CURVE

1. Tip temperature: 260±10°C
2. Tip temperature time: 5sec max

*The melting point of Sn96.5/Ag3/Cu0.5: 217°C

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