



PRODUCT SPECIFICATION

PRODUCT PART NUMBER:

RJT-11UC1F-G13

PRODUCT DESCRIPTION:

RJ45 1X1 Tab Up
Through Hole, Long Body
10/100/1000 Base-T
Contact Area: 30 μ " Gold
LED: L-Green; R-Green

PALCONN

RoHS Compliant

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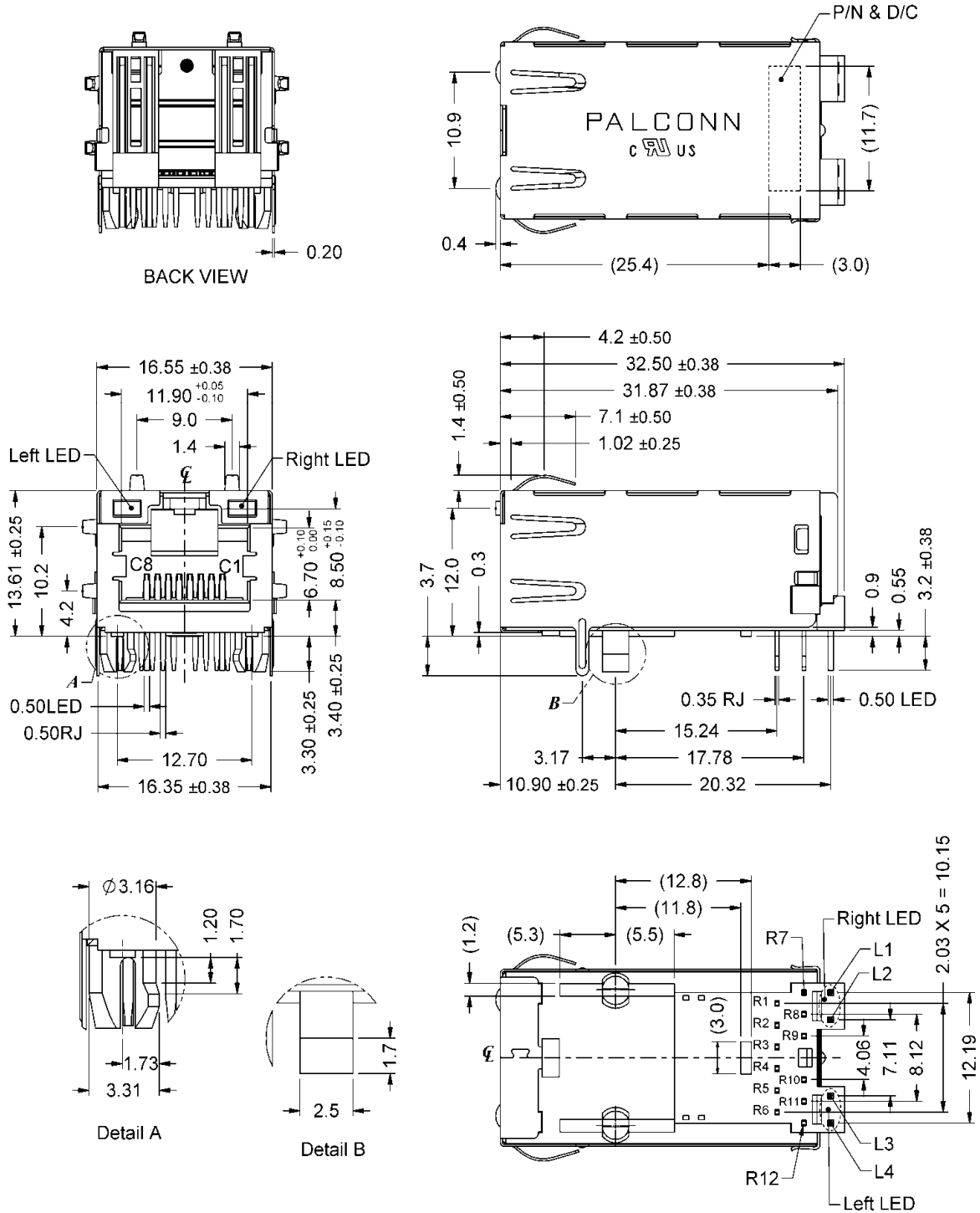


1. MECHANICAL DIMENSION

1.1 Product Dimension

X.X: ± 0.25

General Tolerance: X.XX: ± 0.13



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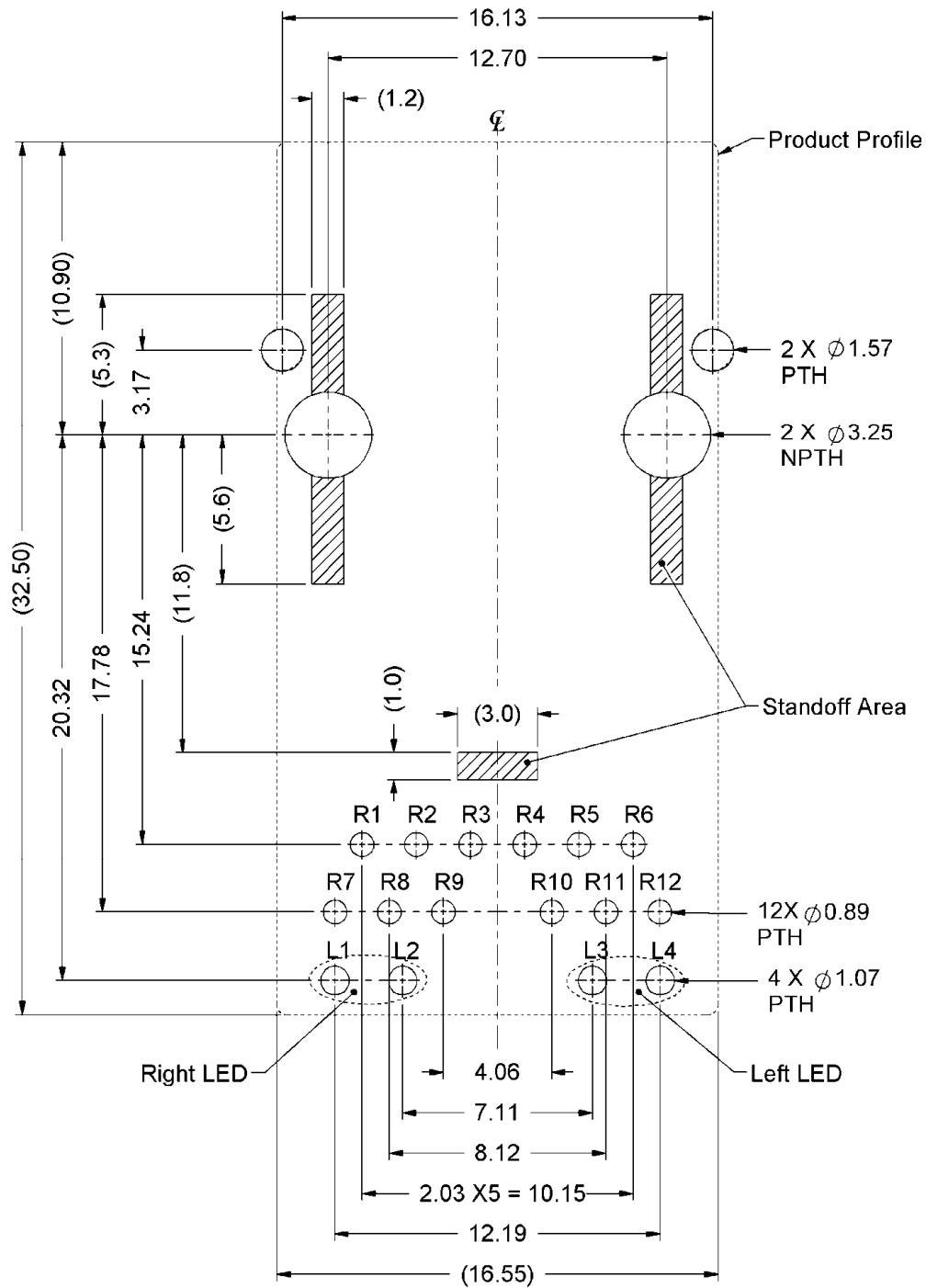
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1.2 Recommended PCB Layout

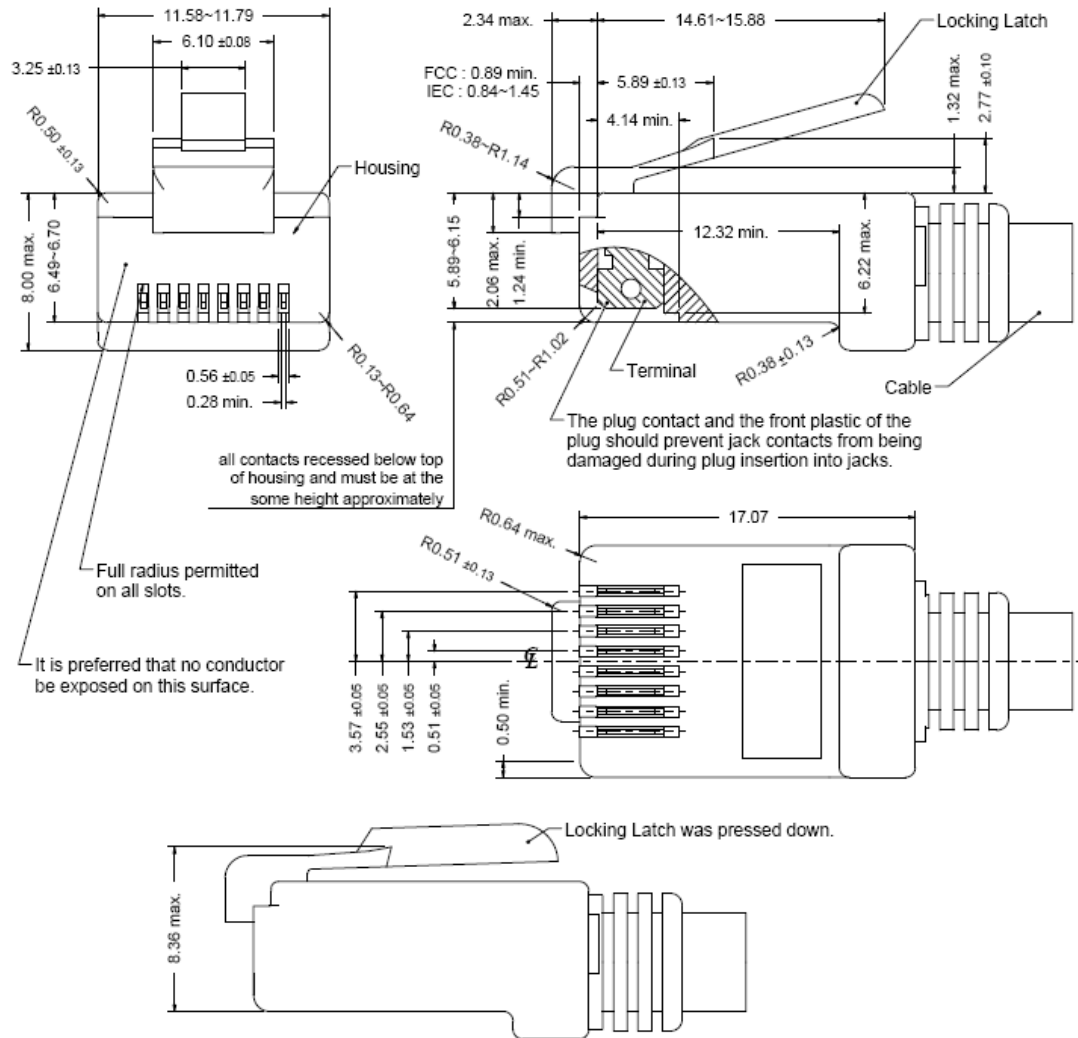
Component Side of Board

All dimensions tolerance are $\pm 0.05\text{mm}$ unless otherwise specified



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1.3 Standard RJ45 Plug Specification



-All dimensions follow:

FCC subpart F, 68,500, Figure (C) (2) (i) & (C) (2) (ii) & (C) (3) (i)

IEC 60603-7

-All plugs must be meeting the requirements of plug Go & No-Go gauge.

Gauge follow: FCC subpart F, 68,500, Figure (C) (4) (i) & (C) (5) (i)

-There must be no damage to Housing and Locking Latch.

-There must be no nicks and cuts in cable.

-Durability: 750 cycles generally

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2. REQUIREMENTS

2.1 Design and Construction

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

2.2 Material

2.2.1 Terminal Parts (Underplating: 30μ" min. Nickel overall)

2.2.1.1. RJ Terminal: PH. Bronze, Thickness=0.30mm

Finish: Contact Area: **30 μ" Gold**

2.2.1.2. Input Terminal: Brass, Thickness=0.35mm

Finish: 100μ" min. Tin

2.2.1.3. Case Terminal: Brass, Thickness=0.30mm

Finish: 100μ" min. Tin

2.2.2 Plastic Parts <UL94V-0>

2.2.2.1. Housing: High Temperature Thermoplastic, Black

2.2.2.2. Case: High Temperature Thermoplastic, Black

2.2.2.3. Spacer: High Temperature Thermoplastic, Black

2.2.2.4. Holder: High Temperature Thermoplastic, Black

2.2.2.5. Light Pipe: High Temperature Thermoplastic, transparent

2.2.3 Shield Parts:

2.2.3.1. Front Shield: Stainless, Thickness=0.20mm, Pre-soldering

2.2.3.2. Back Shield: Brass, Thickness=0.25mm,
Finish: 100μ" min. Tin over 30μ" min. Nickel overall

2.3 Operating and Storage Temperature

Operating Temperature: 0°C to +70°C

Storage Temperature: -40°C to +85°C

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2.4 RJ45 specifications

Insulation Resistance: 500M Ω min.

Insertion force with the latch depressed: 22N max

Removal force with the latch depressed: 44N max

Locking Force of Plug Latch: 50N min. @ 60+/-5 sec

Durability: 2500 cycles

2.5 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.

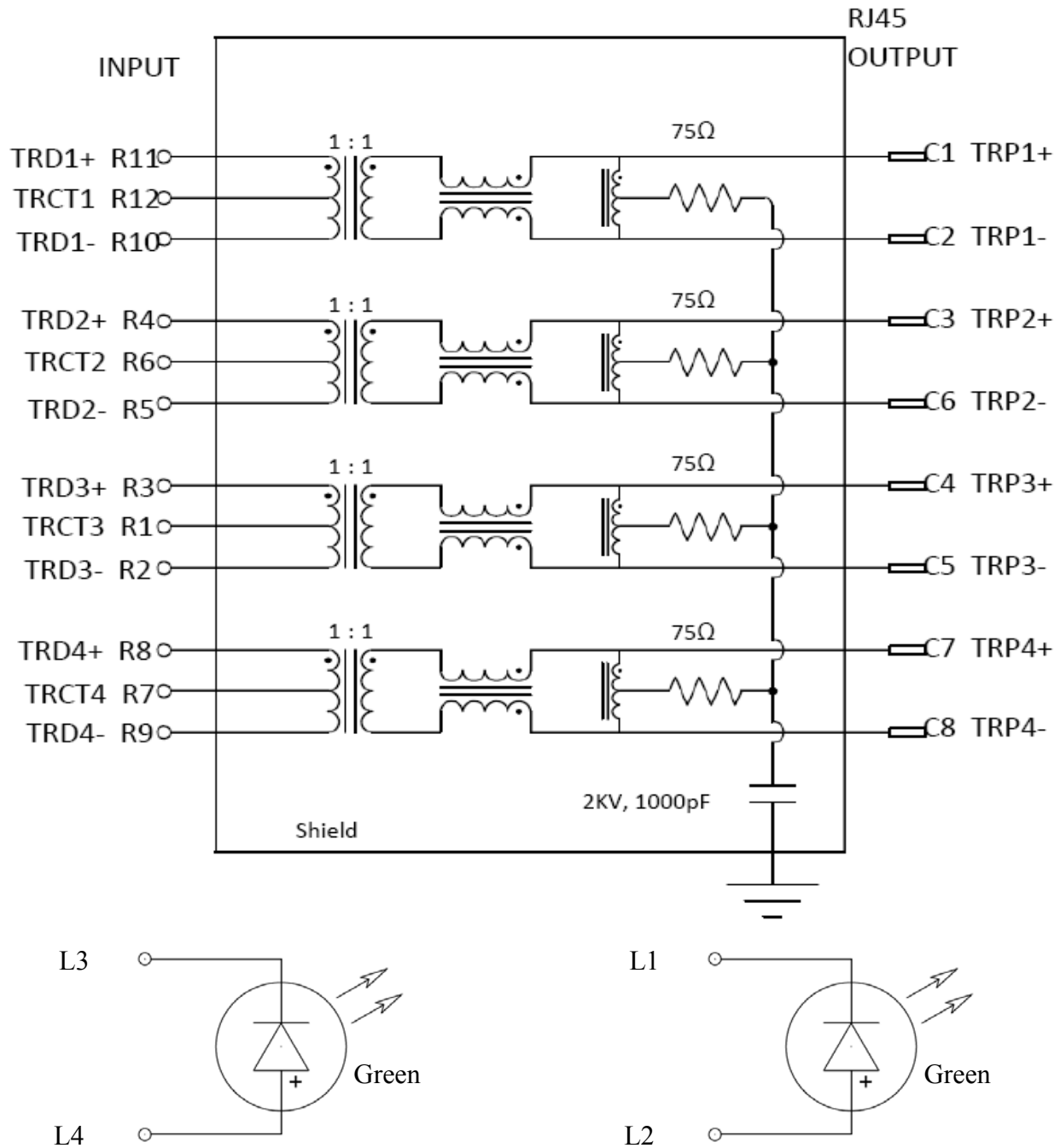
2.6 Packaging and Packing

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

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3. ELECTRICAL CHARACTERISTICS

3.1 Schematic



Emitting Color	λ_p (nm)	$V_f @ I_f=20\text{mA}$	$I_r @ V_r=5\text{V}$
Green	565	1.7 ~2.6 V	10μA max.

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3.2 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
	30~60MHz	-16dB min.	load 100Ω
	60~80MHz	-12dB min.	load 100Ω
	80~100MHz	-10dB min.	Load 100Ω

3.3 Common Mode Rejection

@ 1~100MHz -30dB min.

3.4 Cross Talk

@ 1~100MHz -30dB min.

3.5 Inductance @ 100KHz, 0.1V, 8mA DC BIAS

Input (R11-R10), Input (R4-R5), Input (R3-R2), Input (R8-R9): 350 μH min.

3.6 Hi-pot Test

Input(R11-R10)	To	Output(C1-C2) :	1500Vac 60s or 2250Vdc 60s
Input(R4-R5)	To	Output(C3-C6) :	1500Vac 60s or 2250Vdc 60s
Input(R3-R2)	To	Output(C4-C5) :	1500Vac 60s or 2250Vdc 60s
Input(R8-R9)	To	Output (C7-C8) :	1500Vac 60s or 2250Vdc 60s

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4. ORDER INFORMATION

RJT - 11 U C 1 F - G 13
1 2 3 4 5 6 7 8

1: Product series:

RJT: 1xN Tab Up

2: Number of Ports:

11: 1x1 single port

3: RJ45 Tab Configuration:

U: Up

4: LED Colors:

C: L-Green; R-Green <Refer to Schematic of LED>

5: Panel Tabs:

0: without tab; **1: with tab**

6: Plating Codes < Gold Plating Thickness over Contact Terminal Area>

A: Gold Flash; B: 10 μ” gold; C: 6 μ” gold; D: 15 μ” gold; **F: 30 μ” gold**; G: 50 μ” gold

7: Ethernet Speed:

C: 10/100Base-T (100Mbps); **G: 10/100/1000Base-T (1000Mbps)**

8: Schematic / Circuit Type:

01-99: Based on popular circuit types

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5. DIPPING TEMPERATURE PROFILE

Note:

The measuring point for the specified temperature shall be on the soldered part of the lead.

