Ceviconn

Part Number：RT5-3040K22P

**Replacement of Part Number：RT5-1040K22A

**Part Number： RT5-3040K22P is a replacement of RT-1040K22A. Mechanical size & Electronical schematic are the same, only RT5-3040K22P is an improved version.

Description： RJ45 1X1 Tab Up
Through Hole, Long Body
10/100/1000 Base-T
Contact Area : Gold Flash
LED:without LED
PoE plus

Spec No.	Update Date	Revision
RT50294-00	2014/1/13	A

Approved	Checked	Prepared

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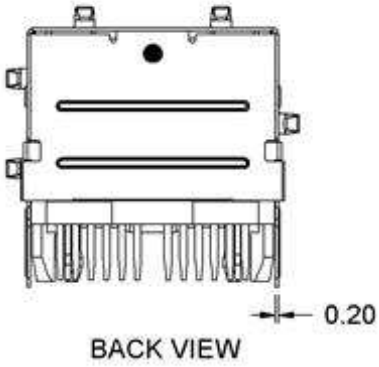
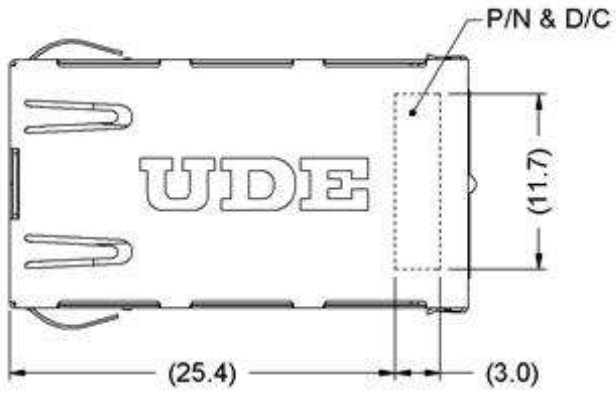
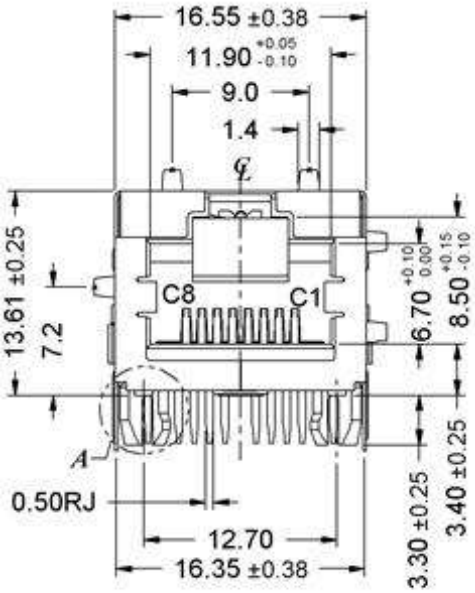
1. MECHANICAL DIMENSION

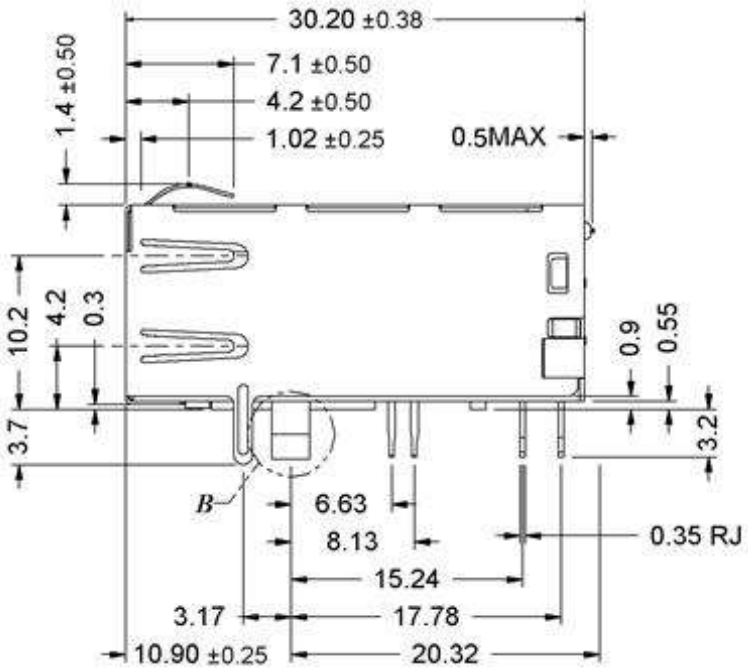
1.1 Product Dimension

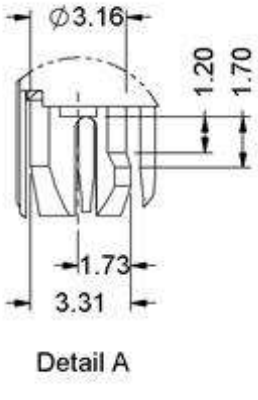
General Tolerance :	X.X : ± 0.25 X.XX : ± 0.13

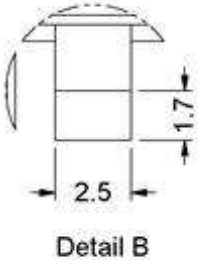


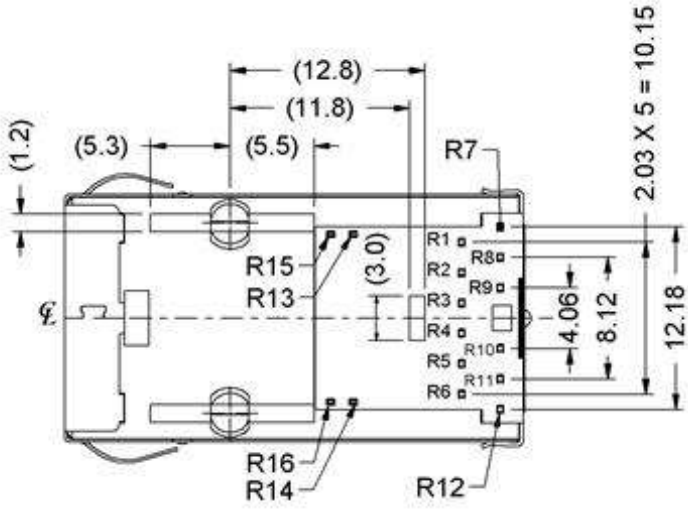








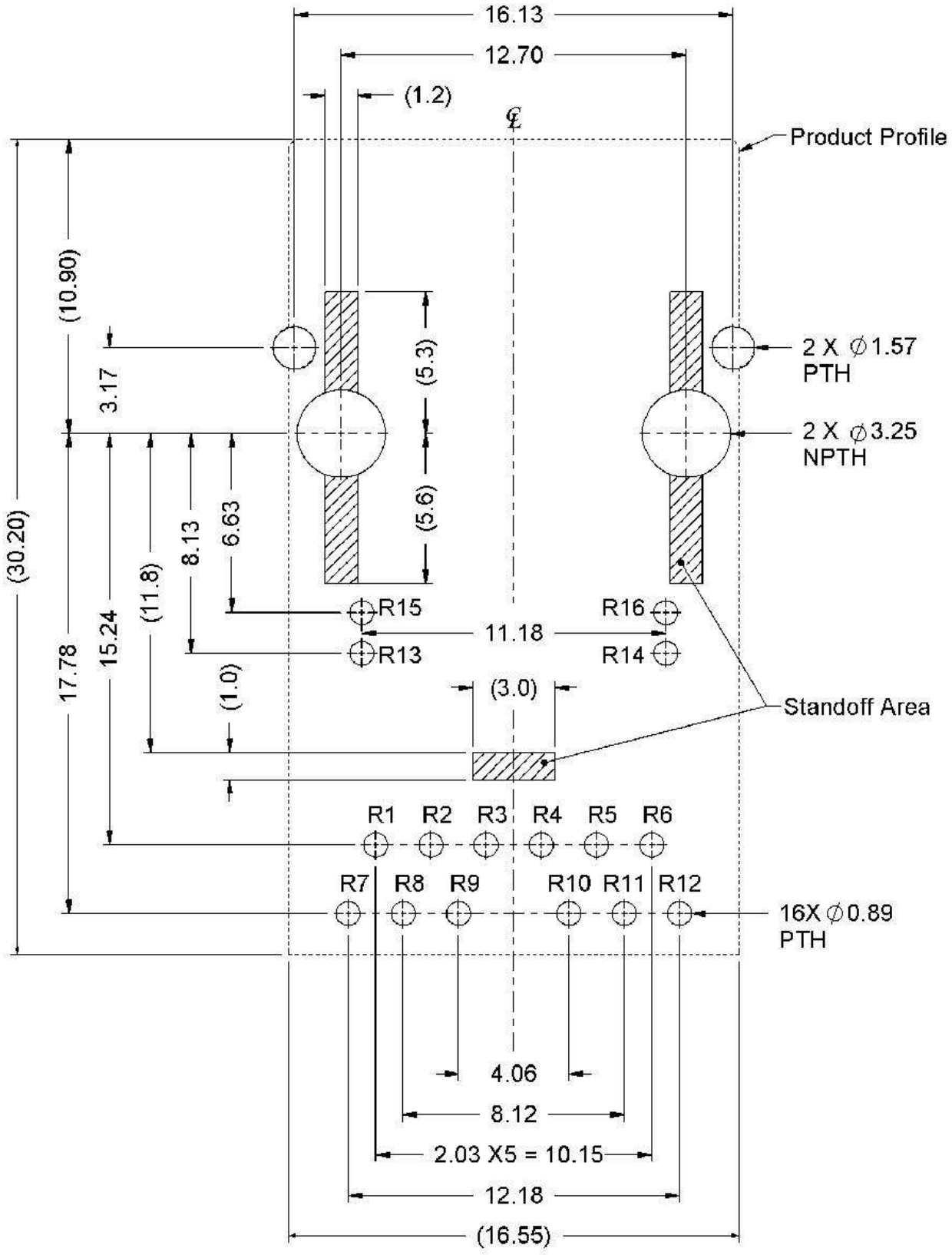




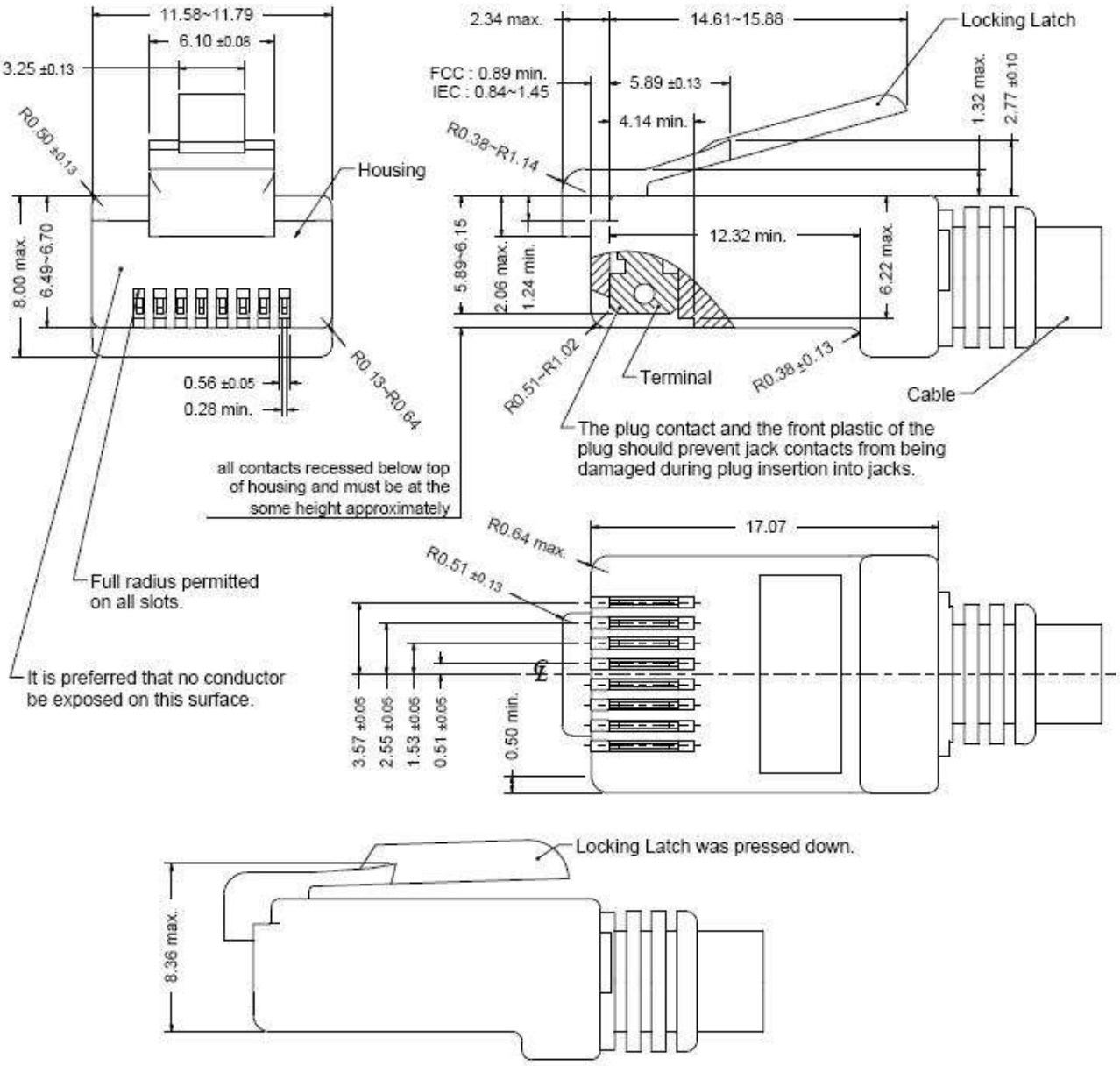
1.2 Recommened PCB Layout

Component Side of Board

All dimension tolerance are ±0.05mm unless otherwise specified



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

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

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

Finish : Contact Area : Gold Flash

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 : PA6T, Black

2.2.2.2 Case : PA6T, Black

2.2.2.3 Spacer : PBT, Black

2.2.2.4 Holder : PBT, Black

2.2.3 Shield Parts

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

Back Shield : Brass, Thickness=0.25mm,

Finish : 100μ" min. Tin over 30

2.3 Operating and Storage Temperature

Operating Temperature : 0℃ to +70℃

Storage Temperature : -40℃ to +85℃

2.4 RJ45 specifications

Insulation Resistance 500MΩ 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 : 750 cycles

2.5 Performance and Test Description

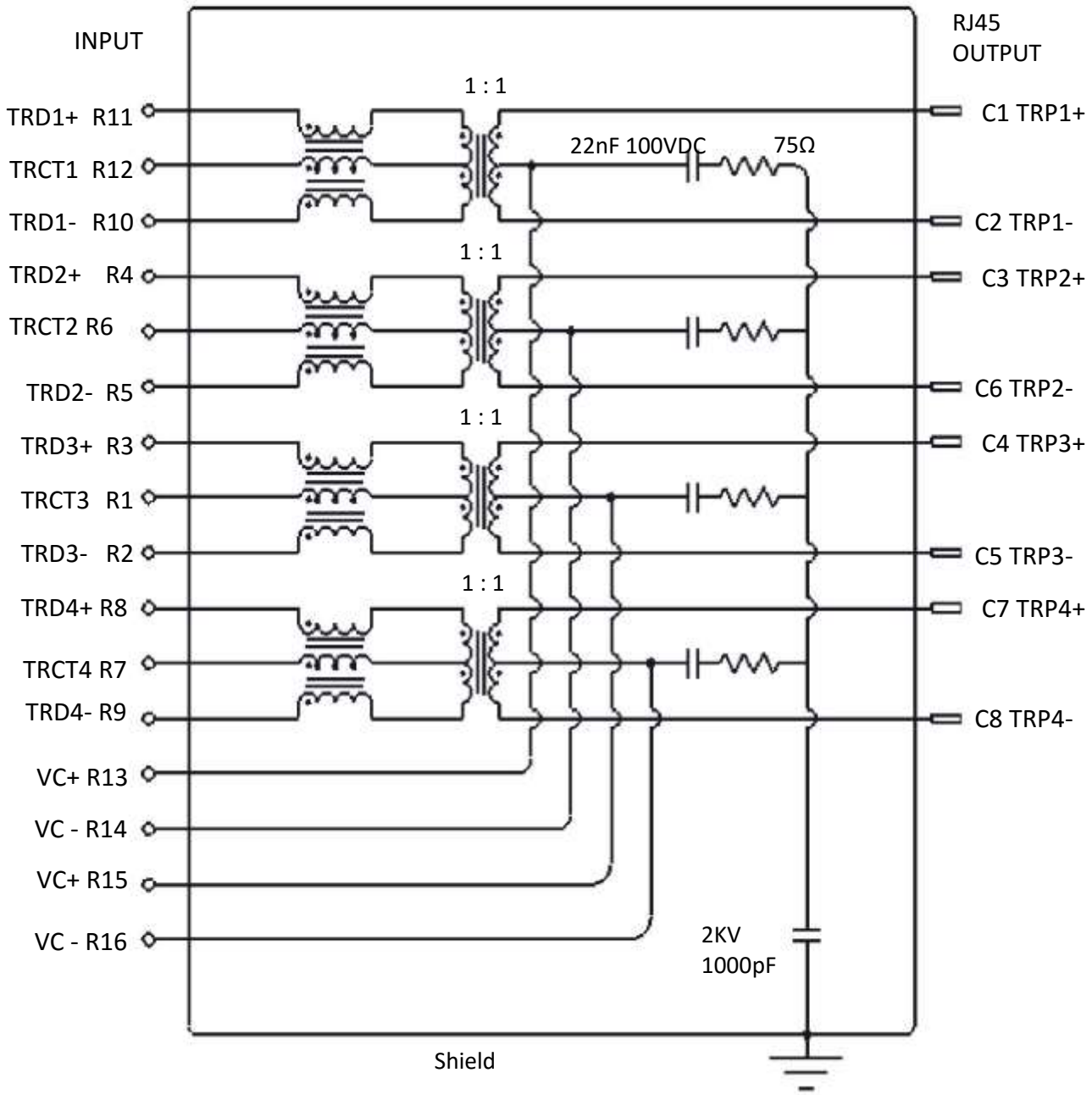
Product is designed to meet electrical, mechanical and environmental performance requirements specified in below table. All tests are performed at ambient environmental conditions per MIL-STD-1344A and EIA-364 unless otherwise specified.

2.6 Packaging and Packing

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

3. ELECTRICAL CHARACTERISTICS

3.1 Schematic



3.2 Transmitter filter & Receiver filter

Type : Balance low pass 100Ω imped

Insertion loss :	1~100 MHz	-1.0dB max.	
Return loss :	1~30 MHz	-18dB min.	load
	30~60MHz	-14dB min.	load
	60~80MHz	-12dB min.	load
	80~100MHz	-10dB min.	load

3.3 Common Mode Rejection

@ 1~100 MHz -30dB min.

3.4 Cross Talk

@ 1~100 MHz -30dB min.

3.5 Inductance (@100KHz,0.1V, 24mA DC BIAS)

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

3.6 HiPot 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

3.7 Balanced DC line current

720mA MAX @57VDC continuous

1.2A MAX @57VDC for 200 milliseconds

4. ORDER INFORMATION

R T 5 - 3 0 40 K22 P
A B C D

A. LED Code :

without LED. <Refer to Schematic of LED>

B. Mechanical Code :

w/ UDE Logo, w/ all spring

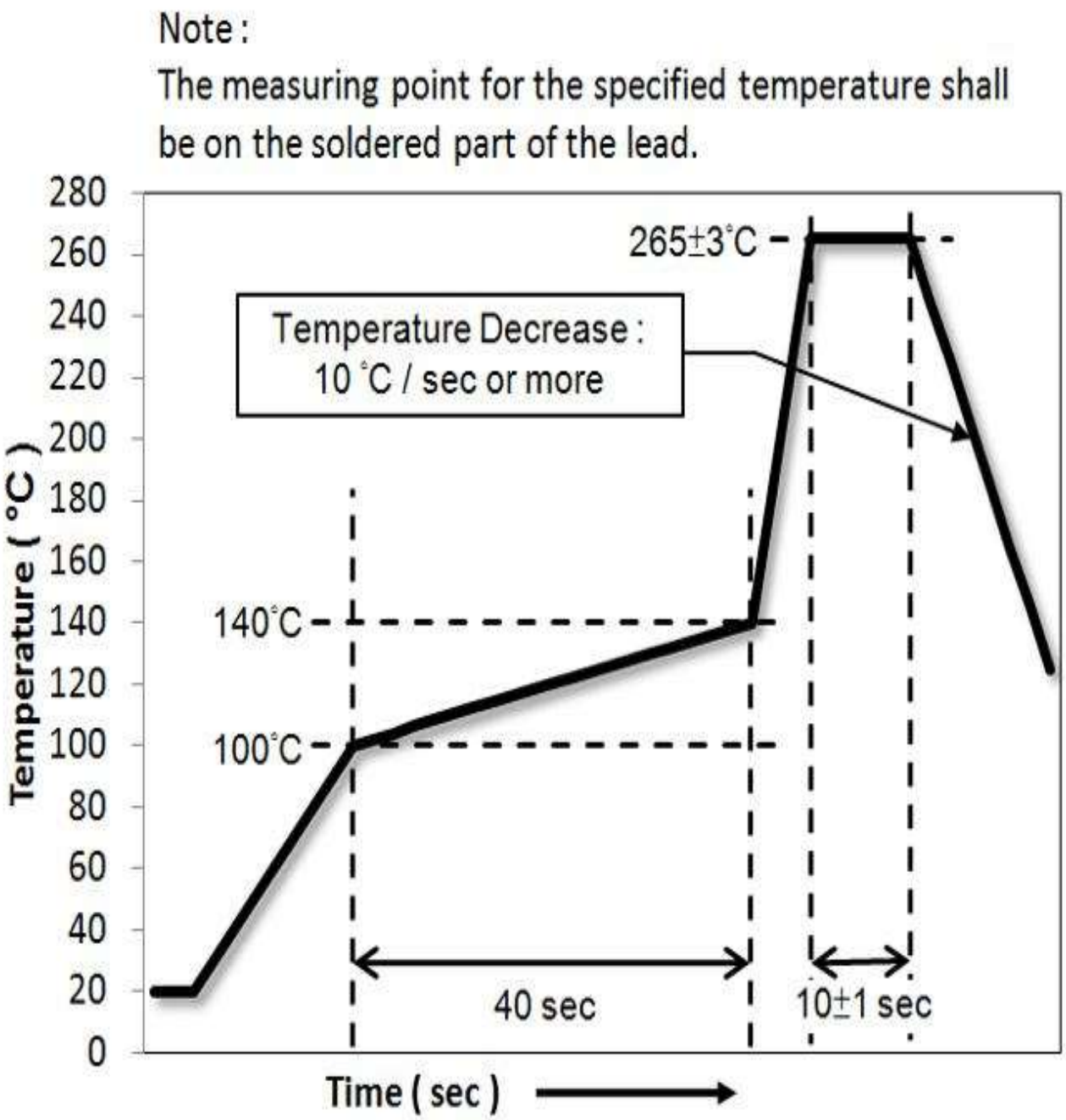
C. Schematics Code :

K22 : K22 circuit

D. Plating Code :

Underplating	30μ"min Nickel overall	
Solder Tail	100μ" min. Bright Tin	100μ" min. Matted Tin
Contact Area	**P : Gold Flash** C : 6μ" gold B : 10μ" gold D : 15μ" gold Q : 30μ" gold G : 50μ" gold	1 : Gold Flash 6 : 6μ" gold 2 : 15μ" gold 3 : 30μ" gold 4 : 50μ" gold

5. DIPPING TEMPERATURE PROFILE



6. Revision History

Issue Date	Revision	Comments	Operator
2014/1/13	A	Initial Release .	Coco