APPROVAL SHEET

To：

Customer P/N：

Singatron P/N： 2TJRV3-AD-0002

Description： RJ45 1X1 Vertical

Through Hole

Without Transformer

Contact Area： 6μ'' Min. Gold

LED：Without LED

RoHS ✓

Spec No. RV318015-00	Update Date 5/22/2018	Revision A
Approved	Checked	Prepared

SINGATRON U.S.A.
13925 MAGNOLIA AVE
CHINO, CA 91710 USA

Revision History

Issue Date	Revision	Comments	Operator
5/22/2018	A	Initial Release .	Max

1. MECHANICAL DIMENSION

Product Dimension

Unit:mm	General Tolerance :	X.X : ± 0.38 X.XX : ± 0.20
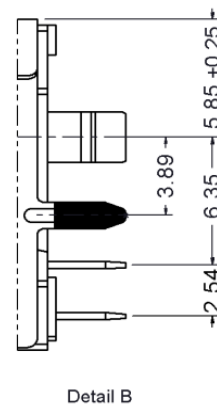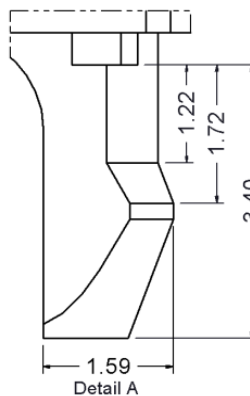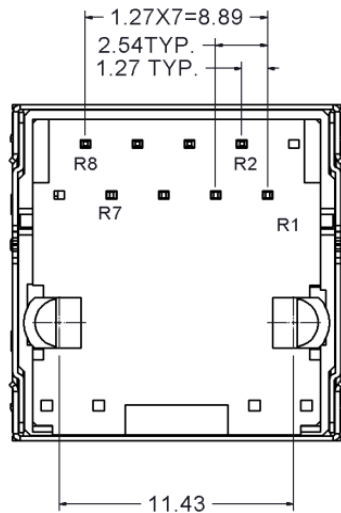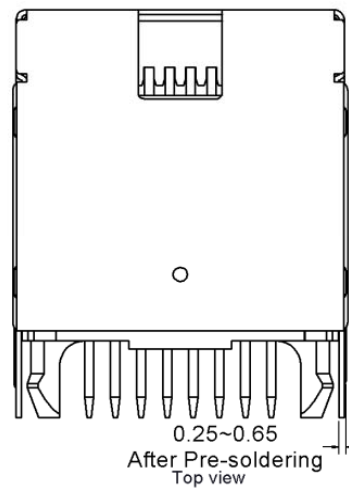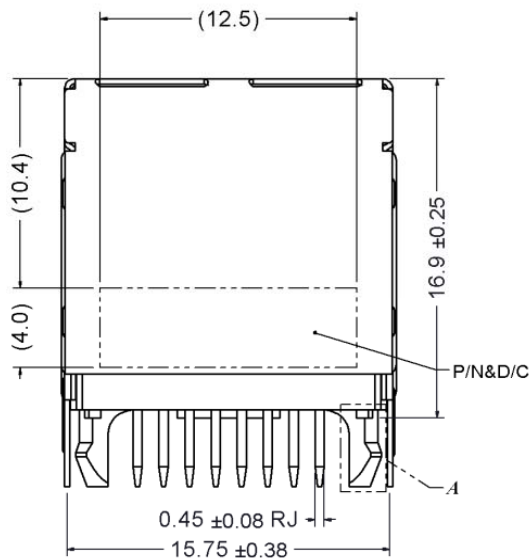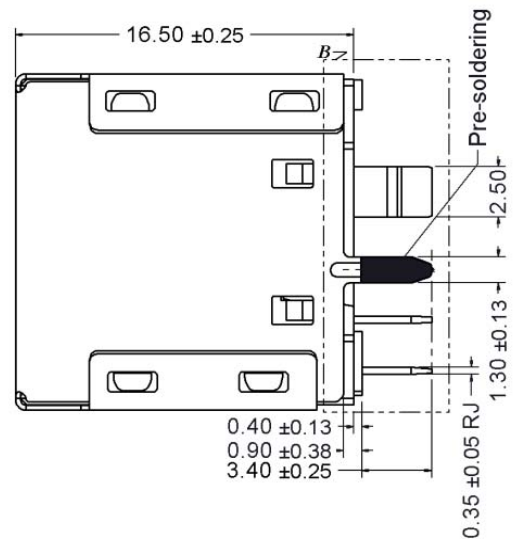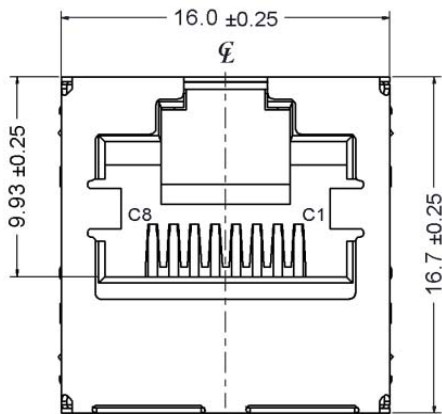
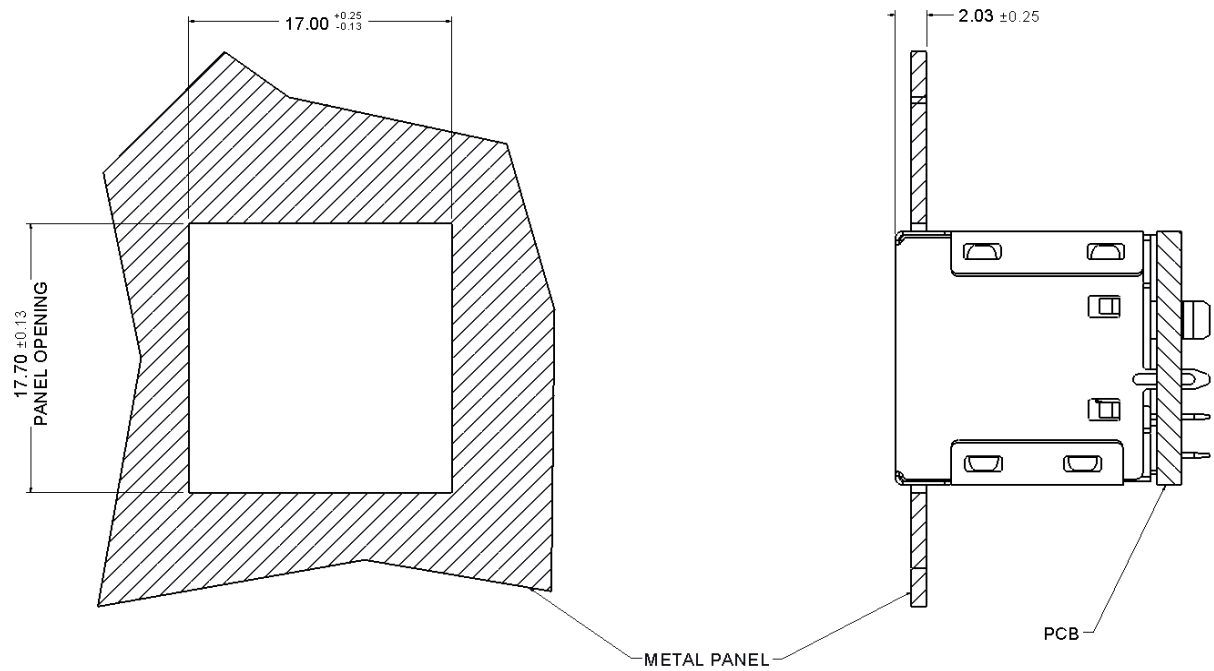Recommended PCB Layout. Component side of board

All dimension units are "mm".

All dimension tolerances are ±0.05mm unless otherwise specified.

2X ∅3.25
Board Lock
NPTH

(16.00)

11.43

(5.0)

₵

(1.5)

(4.1)

(5.85)

(6.9)

(16.70)

3.89

6.35

8.89

R7   R5   R3   R1

R8   R6   R4   R2

2x ∅1.57
Shield PTH

(3.2)

8X ∅0.89
RJ PTH

2.54 TYP.

1.27 TYP.

1.27X7=8.89

Product profile

(0.8)

(12.5)

15.75
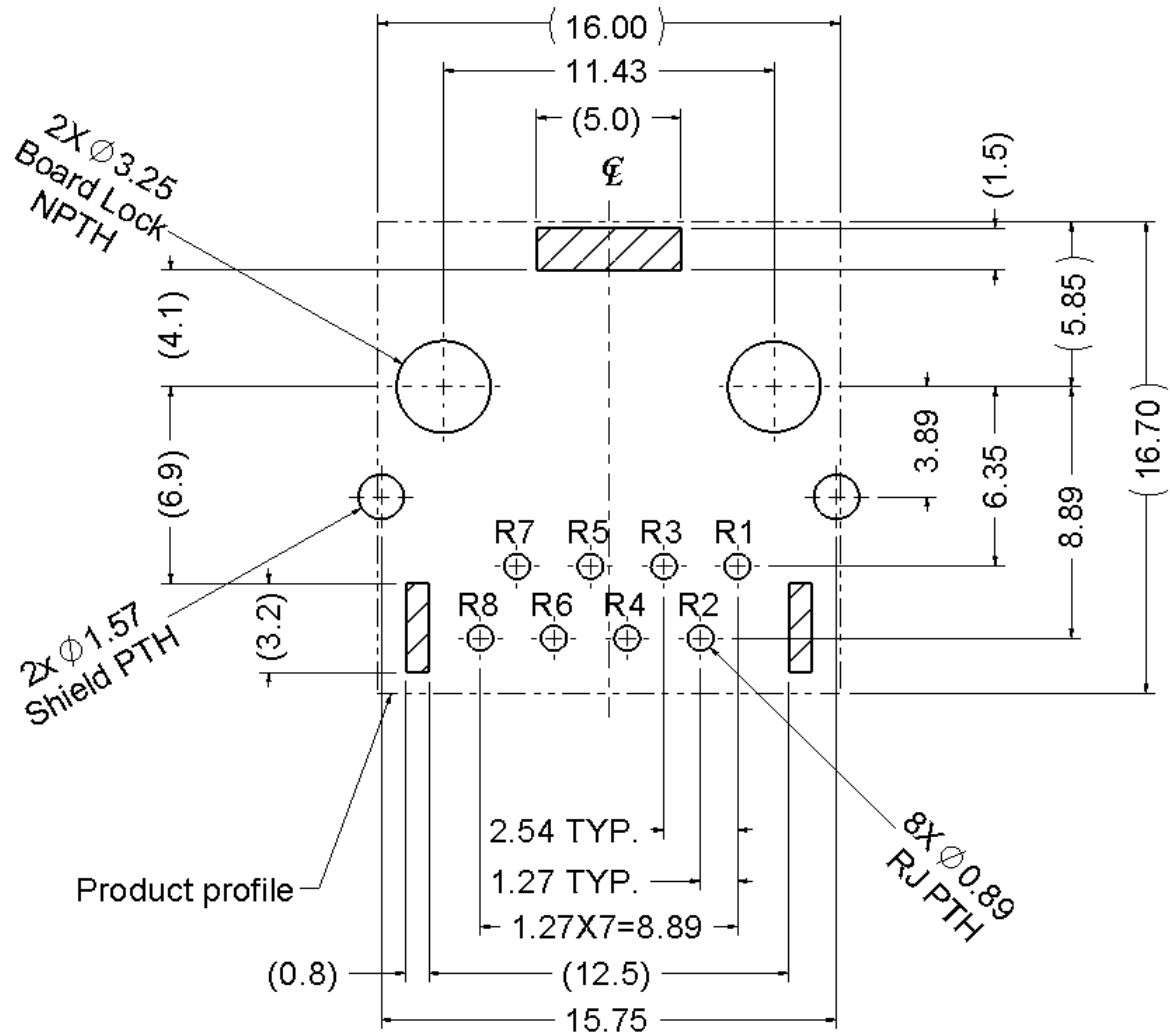
Recommended Panel cutout

17.00 $^{+0.25}_{-0.13}$

2.03 ±0.25

17.70 ±0.13
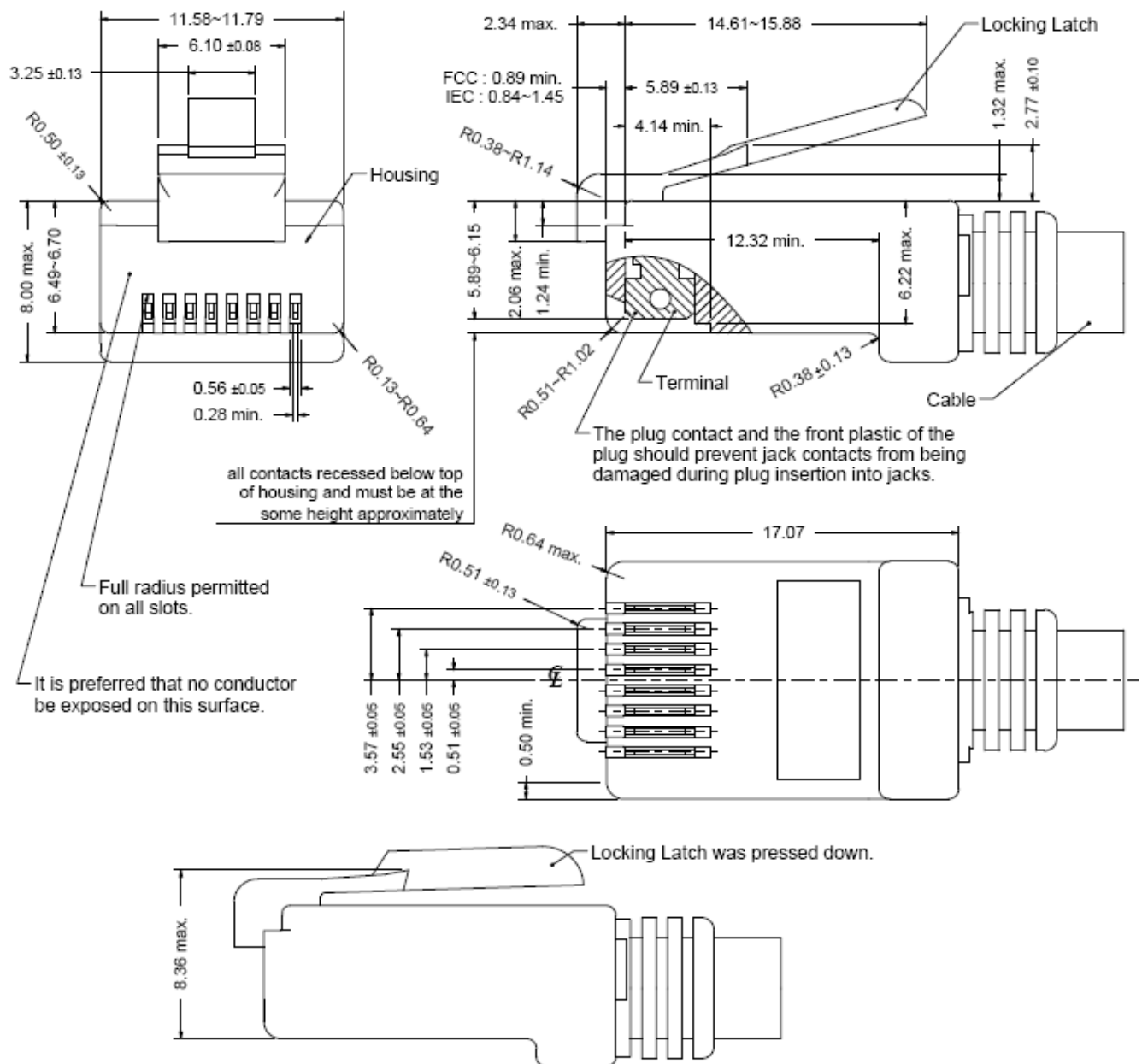PANEL OPENING

METAL PANEL

PCB

2. Packing Information

50 pcs finished goods per tray

7 trays(350 pcs finished goods) per inner box

4 Inner boxes(1400 pcs finished goods) per master carton

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

4. REQUIREMENTS

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

Material
Terminal Parts (Underplating : 50µ" min. Nickel overall)
RJ Terminal : Phosphor Bronze, Thickness=0.30mm
Finish : Contact Area : 6u" min.Gold
Input Terminal : Brass, Thickness=0.35mm
Finish : 100µ" min. Matte Tin
Case Terminal : Brass, Thickness=0.30mm
Finish : 100µ" min. Matte Tin
Plastic Parts <UL94V-0>
Housing : PA6T, Black
Case : PA6T, Black
Spacer : PA6T, Black
Shield Parts : Stainless Steel, Thickness=0.25mm, Pre-soldering

5. Operating and Storage Temperature

    Operating Temperature :   -40°C to +85°C

     Storage Temperature :   -40°C to +85°C

6. RJ45 specifications

Insulation Resistance :   500MΩ min.

Insertion force with the latch depressed :   20N max.

Removal force with the latch depressed :   20N max.

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

Durability :   2500 cycles
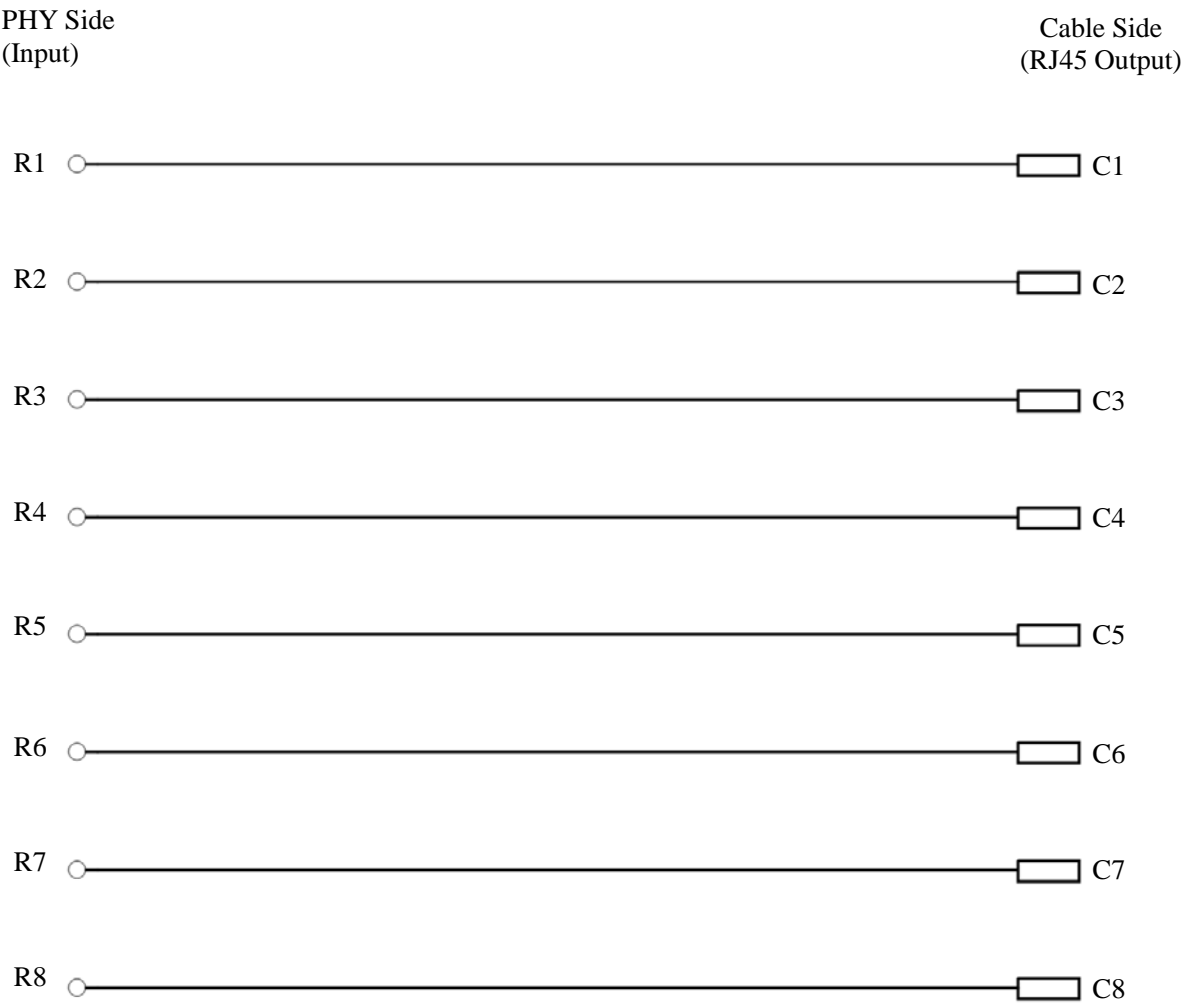

7. Performance and Test Description

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.

8. Packaging and Packing

All parts shall be packaged and packed to protect against physical damage, corrosion

and deterioration during shipment and storage.

9. ELECTRICAL CHARACTERISTCS @ 25℃

PHY Side
(Input)

Cable Side
(RJ45 Output)

R1 ○————————————————————————————————————⬚ C1

R2 ○————————————————————————————————————⬚ C2

R3 ○————————————————————————————————————⬚ C3

R4 ○————————————————————————————————————⬚ C4

R5 ○————————————————————————————————————⬚ C5

R6 ○————————————————————————————————————⬚ C6

R7 ○————————————————————————————————————⬚ C7

R8 ○————————————————————————————————————⬚ C8

10. WAVE SOLDERING TEMPERATURE PROFILE

Note：

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