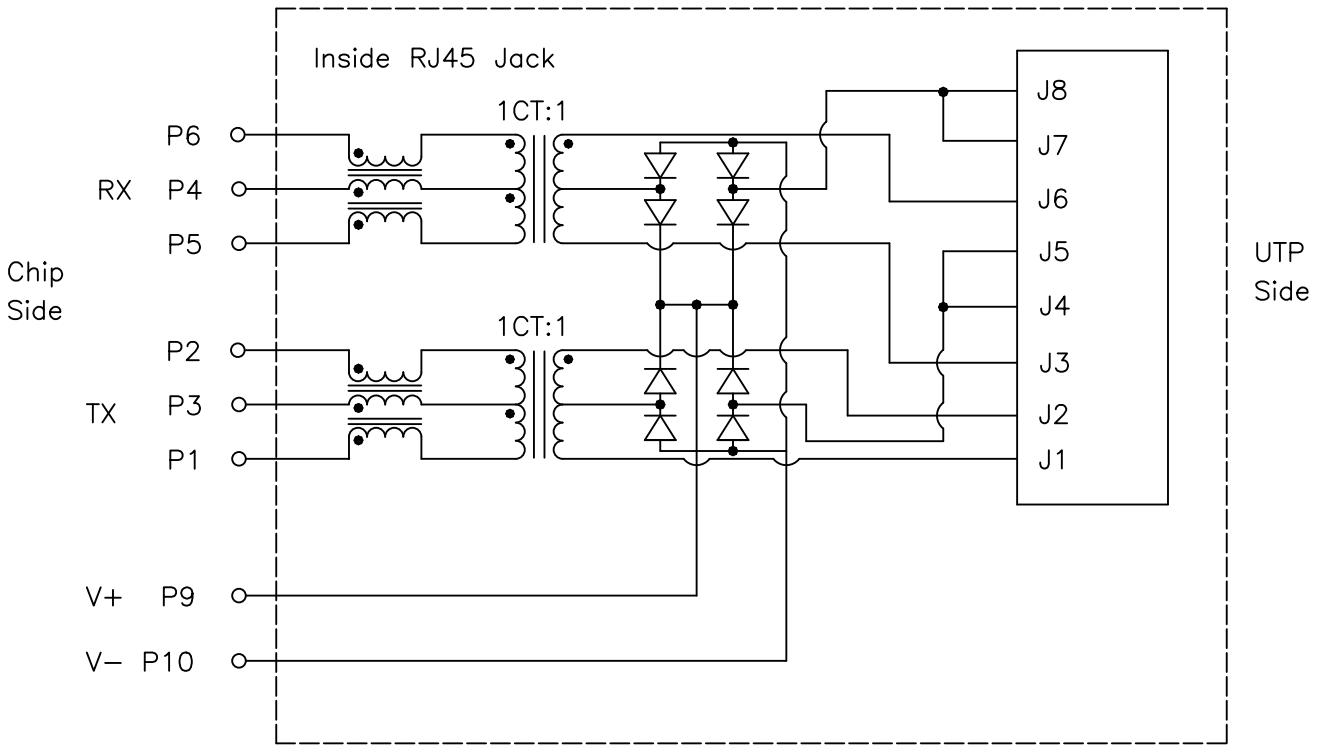
HR993301AE

Electrical Specification @25°C

Isolation:	2250VDC Min.	0.5mA 60sec UTP Side to Chip Side
OCL:	350uH Min.	@100KHz 100mV with 8mADC
OCL:	120uH Min.	@100KHz 100mV with 19mADC
Insertion Loss:	−1.0dB Max.	@1MHz ~ 100MHz
Return Loss:	−18dB Min.	@1MHz ~ 30MHz
Return Loss:	−13.5dB Min.	@30MHz ~ 60MHz
Return Loss:	−12dB Min.	@60MHz ~ 80MHz
Return Loss:	−10dB Min.	@80MHz ~ 100MHz
Common Mode Rejection:	−30dB Min.	@1MHz ~ 100MHz
Crosstalk:	−30dB Min.	@1MHz ~ 100MHz
PoE current:	600mA Max.	@57VDC

Schematics



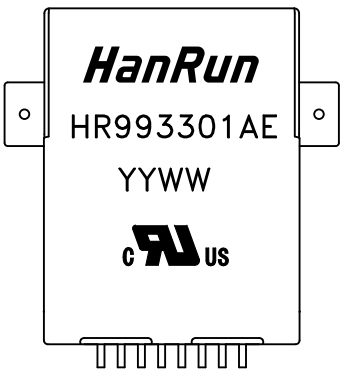
DRAWED: CHECKED: APPROVED:

Tel: (0760)86103511 86103508 Fax: (0760)86103686 Post code: 528416
E-Mail: sales@hanrun.com http: //www.hanrun.com

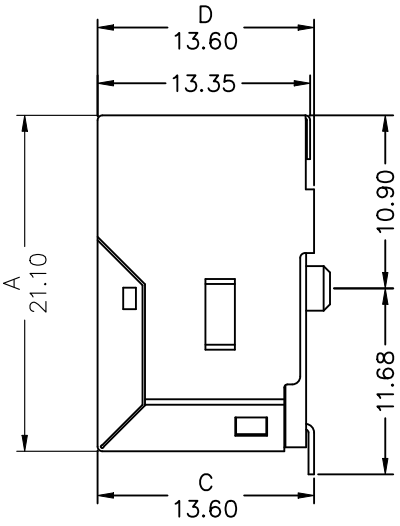
HR993301AE

- RoHS Compliant
- Meets or Exceeds IEEE802.3at standards including 350uH Min OCL with 8mADC
- High performance for EMI suppression, Crosstalk, Return Loss and Consistent Electrical
- Minimum 2250VDC isolation per IEEE802.3 requirement
- Minimize PCB space and Simplify PCB Layout
- Less magnetic components to be placed on PCB, higher reliability and yields
- UL Recognized Component: File # E330599

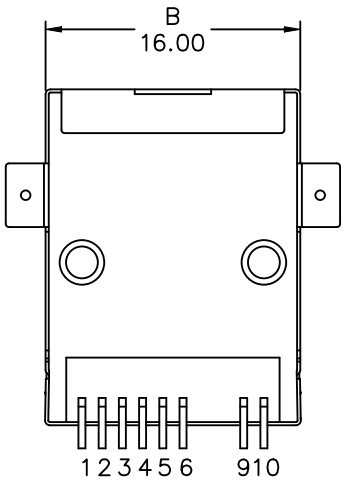
Mechanical Dimensions:



(Top View)

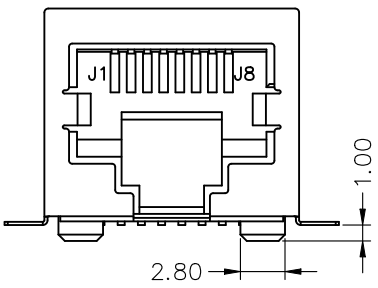


(Side View)



(Bottom View)

Remark:
1.Remove Pin#7,#8



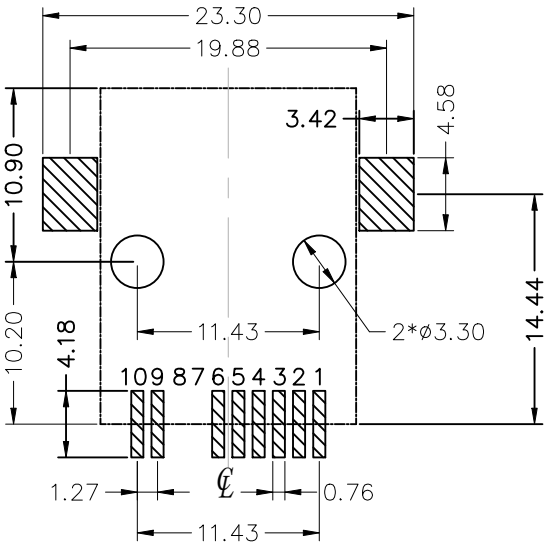
(Front View)

Dimensions in mm
Unless otherwise specified, Tolerance: .xx ±0.25

DRAWED: CHECKED: APPROVED:

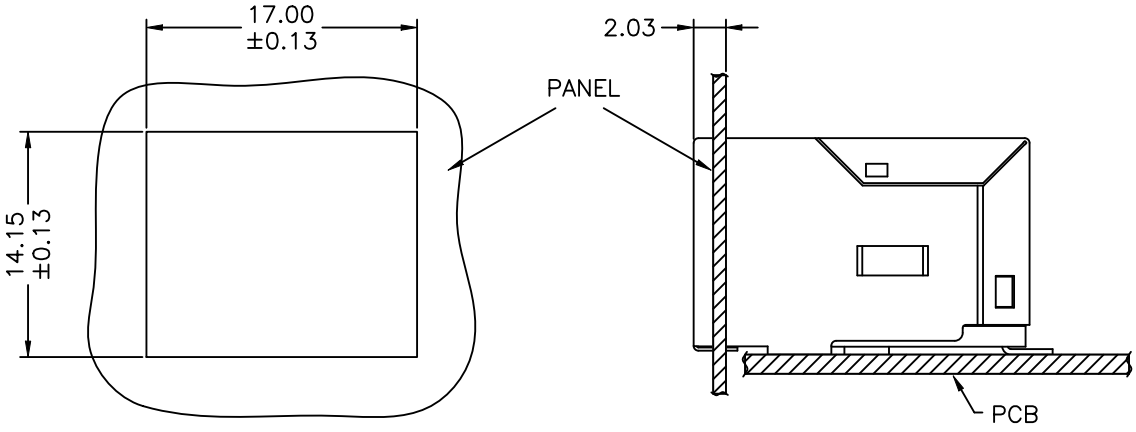
Tel: (0760)86103511 86103508 Fax: (0760)86103686 Post code: 528416
E-Mail: sales@hanrun.com http: //www.hanrun.com

Mechanical Dimensions:



Recommended PCB layout (Component Side View)
All dimension tolerance are ±0.08 unless otherwise specified

Suggested Panel Cutout:



SUGGESTED PANEL OPENING

Dimensions in mm
Unless otherwise specified, Tolerance: .xx ±0.25

DRAWED: CHECKED: APPROVED:

Tel: (0760)86103511 86103508 Fax: (0760)86103686 Post code: 528416
E-Mail: sales@hanrun.com http: //www.hanrun.com

Material Specification:

Housing: PA9T GF Black UL94V-0
Shield: 30u" Nickel over 0.20mm Thickness Brass
Insert: PA9T GF Black UL94V-0
Phosphor Bronze 0.35mm Thickness
Plating Area, 30u" gold over 50u" nickel
Solder Area, 100u" tin over 50u" nickel

Mechanical Performance:

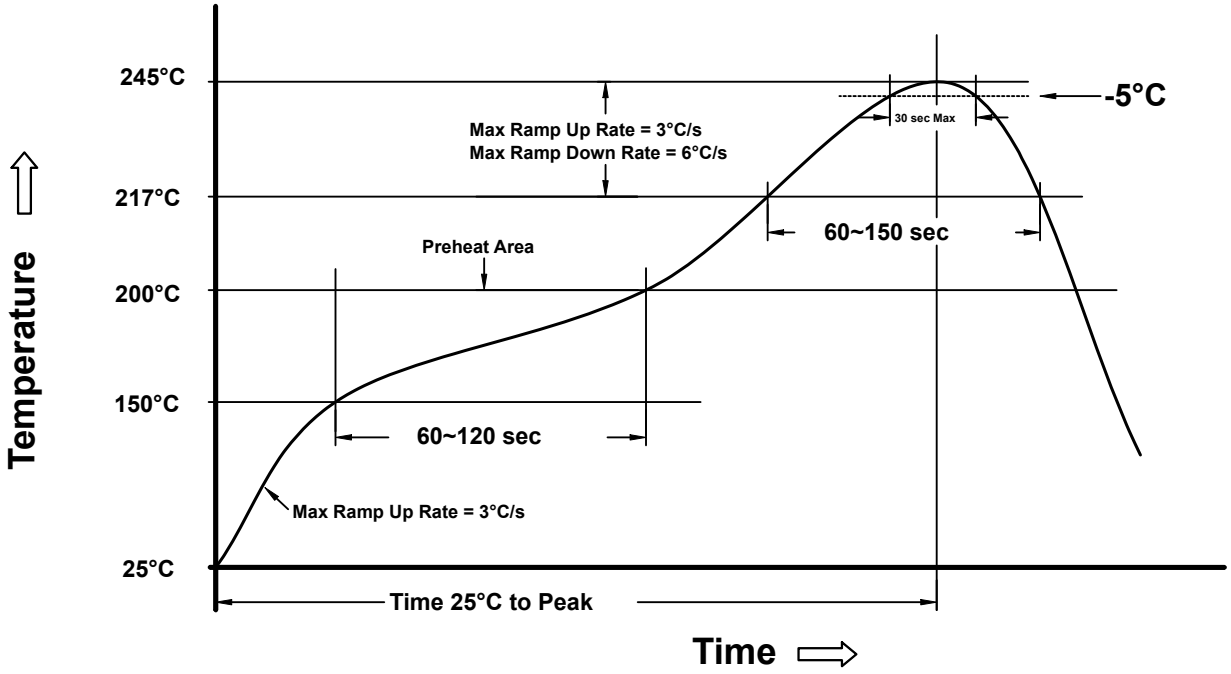
Mating force: 5 lbs Maximum
Unmating force: 5 lbs Maximum
Plug to Jack Retention force: 12 lbs Minimum
Operating life: 750 Cycles Minimum

Operating and Storage Temperature:

Operating Temperature Range: -40°C ~ +85°C
Storage Temperature Range: -40°C ~ +85°C

DRAWED: CHECKED: APPROVED:
Tel: (0760)86103511 86103508 Fax: (0760)86103686 Post code: 528416
E-Mail: sales@hanrun.com http: //www.hanrun.com

Lead-free Recommended Soldering Profile



Remarks:

- peak temperature = 245°C
- Maximum preheat rate = 3°C / sec
- Ramp up rate = 3°C / sec max
- Time above 217°C = 60 sec min / 150 sec max
- Maximum cooling rate = 6°C / sec
- T 25°C to peak = 8 min max
- preheat Time = 60 ~ 120 sec
- The number of allowed cycles in IR reflow ≤ 2 cycles

Tel: (0760)86103511 86103508 Fax: (0760)86103686 Post code: 528416
E-Mail: sales@hanrun.com http: //www.hanrun.com