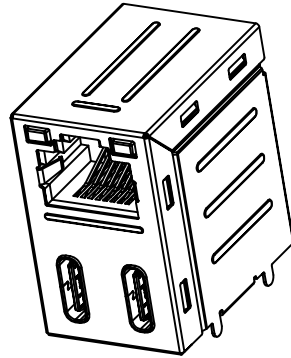
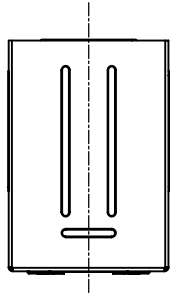


RoHS Compliant

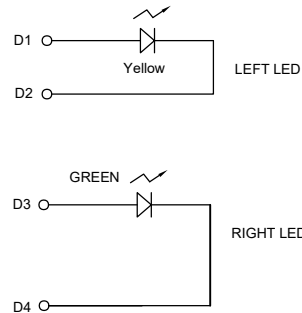
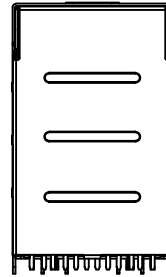
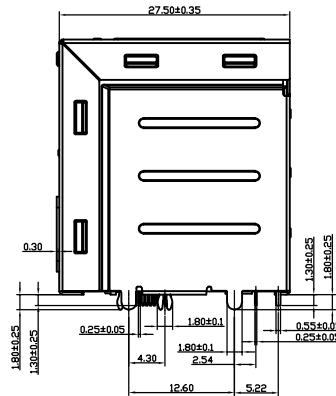
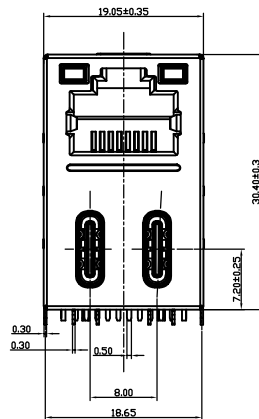


RJ45

- 1.Designed to support application,such as SOHO(ADSL modems)
LAN-on-Motherboard(LOM),hub and Switches.
- 2.Meets IEEE802.3 specification.
- 3.Connector Material:
 - 3-1.Housing&Insertion Base: Thermo plastics PBT+30%GF,UL94V-0.
- 4.RJ45 Terminal:
 - 4-1.Phosphor Bronze C5191.Thickness=0.30mm.
 - 4-2.g" Gold plating on RJ45 contact area.
 - 4-3. Tin Plating 100u" on solder tail area
 - 4-4.45u" min Ni underplating over all.
- 5.Shell: Stainless steel 304 , .Thickness=0.25mm.Immersion tin.
- 6.Electrical performance:
 - 4-1.Voltage Current Rating :1.5 AMP. 30V AC
 - 4-2.Insulation Resistance :1000M Ω Min.
 - 4-3.Contact Resistance :40 m Ω Max.
 - 4-4.Dielectric Withstanding Voltage :500V AC
 - 4-5.Durability :750 cycles .
7. Operating temperature range : -20°C to +85°C.
Storage temperature range

TYPE-C NOTE:

- 1.MATERIAL SPECIFICATION:
 - 1.HOUSING:PA9T,UL94 V-0.
 - 2.TERMINAL: COPPER ALLOY(C1814)
 - 3.MID PLATE: STAINLESS STEEL(SUS301)
 - 4.FRONT SHELL: STAINLESS STEEL(SUS304)
 - 5.COVER: STAINLESS STEEL(SUS304)
- 2.PLATING SPECIFICATION:
 - 2-1.TERMINAL:
Ni 50u" MIN. UNDER PLATED OVER ALL.
Au PLATED ON THE FUNCTIONAL AREA OF CONTACT.
(GOLD PLATING THICKNESS FOLLOW THE P/N)
PLATING SPECIFICATIONS OF THE SOLDER AREA FOLLOW THE P/N
 - 2-2.FRONT SHELL:
Ni 30u" MIN. UNDER PLATED OVER ALL.
 - 2-3.MID PLATE&COVER:
CLEAR ONLY
- 3.MECHANICAL PERFORMANCE,
 - 3-1.INSERTION FORCE: 0.5~2.0kgf.
 - 3-2.REMOVAL FORCE: 0.8kgf~2.0kgf.
 - 3-3.DURABILITY: 10000 CYCLES.
- 4.ELECTRICAL PERFORMANCE,
 - 4-1. VOLTAGE RATING:5 V DC/AC (RMS. max)
CURRENT RATING:5 AMPS. FOR TOTAL VBUS/GND PINS;
1.25AMPS FOR CC PIN,0.25 AMPS. FOR ALL OTHER CONTACT.
 - 4-2. LLCR:
VBUS & GND PINS AND OTHER PINS: 40m Ω /PIN MAX.
SHIELD: 50m Ω /MAX.
LLCR MAX. CHANGE OF ALL PINS: 10m Ω .
 - 4-3.INSULATION RESISTANCE: 100M Ω MIN
 - 4-4.DIELECTRIC WITHSTAND VOLTAGE,AC 100V FOR 1 MINUTE.
5. ENVIRONMENTAL PERFORMANCE:
OPERATING TEMPERATURE: -25°C~+85°C.
- 6.IR REFLOW:
THE PEAK TEMPERATURE ON THE BOARD SHALL
BE MAINTAINED FOR 10 SECONDS AT 260°C.



PART NO. INFORMATION

U31RJ01- X 5 0 X - 018

CONTACT PLATED

1: G/F 2: AU 3U"
3: AU 6U" 4: AU 15U"
5: AU 30U"

PACKAGE
R: TAPE REEL
T: TRAY

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TOLERANCES UNLESS OTHERWISE SPECIFIED:

.X	± 0.35	X'	± 3'
.XX	± 0.25	.X'	± 2'
.XXX	± 0.15	.XX'	± 1'

Website: www.bsc-elec.com

Email: bestcreate@bsc-elec.com

DESIGN:

DATE:

I. L

2017. 3. 1

CHECKED:

DATE:

C. W

2017. 3. 1

APPROVED:

DATE:

C. W

2017. 3. 1

TITLE:

RJ45+DUAL SIDE ENTRY TYPE C 14PIN CONNECTOR WITH LED

MATERILA:

PART NO:

U31RJ01-X50X-018

SIZE:

A4

FINSH:

DWG NO:

U31RJ01-X50X-018

1of2

REV: A

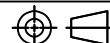
UNIT

mm

SCALE

1=1

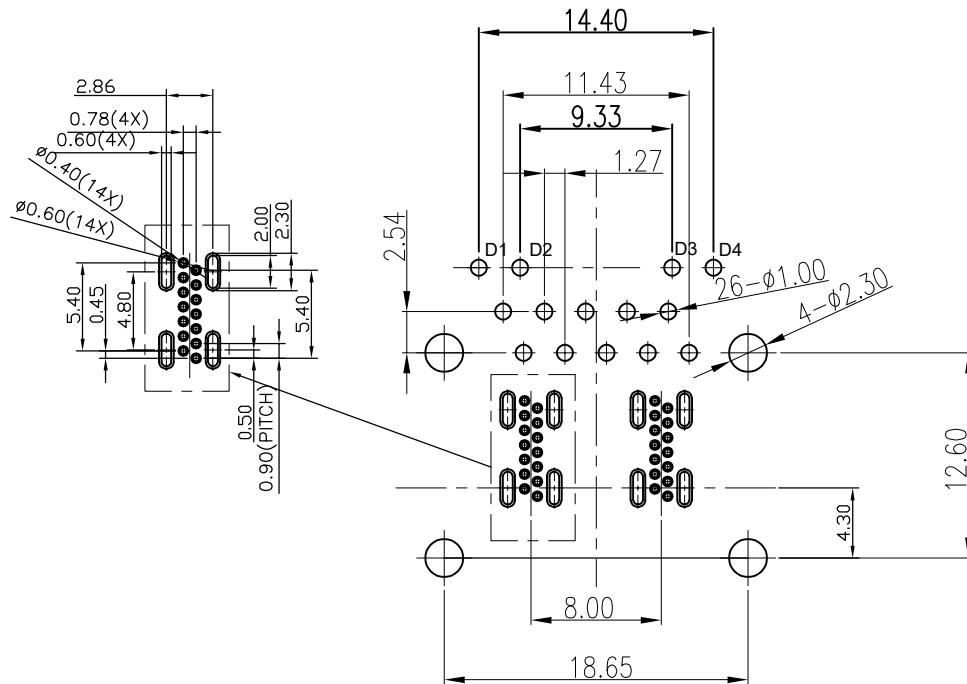
QUALITY
SYMBOLS



RoHS Compliant

REVISIONS

REV.	DESCRIPTION	DATE	DESIGN



RECOMMENDED PCB LAYOUT(TOP VIEW)
(DEFAULT TOLERANCE:±0.05)

PIN	Signal Name	Description	PIN	Signal Name	Description
A1	GND	Ground return	B12	GND	Ground return
A4	V _{BUS}	Bus Power	B9	V _{BUS}	Bus Power
A5	CC1	Configuration Channel	B8	SBU2	Sideband Use (SBU)
A6	Dp1	Positive half of the USB 2.0 differential pair-Position 1	B7	Dn2	Negative half of the USB 2.0 differential pair-Position 2
A7	Dn1	Negative half of the USB 2.0 differential pair-Position 1	B6	Dp2	Positive half of the USB 2.0 differential pair-Position 2
A8	SBU1	Sideband Use(SBU)	B5	CC2	Configuraation Channel
A9	V _{BUS}	Bus Power	B4	V _{BUS}	Bus Power
A12	GND	Ground return	B1	GND	Ground return

Bestcreate Technology Limited

TOLERANCES UNLESS OTHERWISE SPECIFIED:

.X	± 0.35	X"	± 3"
.XX	± 0.25	.X"	± 2"
.XXX	± 0.15	.XX"	± 1"

Website: www.bsc-elec.com

Email: bestcreate@bsc-elec.com

DESIGN: I. L
DATE: 2017. 3. 1

CHECKED: C. W
DATE: 2017. 3. 1

APPROVED: C. W
DATE: 2017. 3. 1

TITLE: RJ45-DUAL SIDE ENTRY TYPE C 14PIN CONNECTOR WITH LED

MATERILA:	PART NO: U31RJ01-X50X-018	SIZE: A4
FINSH:	DWG NO: U31RJ01-X50X-018	2of2

REV: A	UNIT mm	SCALE 1=1	QUALITY SYMBOLS
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