

RoHS Compliant

REVISIONS

REV.	DESCRIPTION	DATE	DESIGN

RJ45

- 1.Designed to support application,such as SOHO(ADSL modems)
- 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.gf" 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℃ to +85℃.
- 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℃~+85℃.
- 6.IR REFLOW:
THE PEAK TEMPERATURE ON THE BOARD SHALL
BE MAINTAINED FOR 10 SECONDS AT 260℃.

PART NO. INFORMATION

U31RJ01- X 5 0 X - 017

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+SIDE ENTRY TYPE C 14PIN CONNECTOR

MATERILA:

PART NO:

U30RJ01-X50X-017

SIZE:

A4

FINSH:

DWG NO:

U30RJ01-X50X-017

1of2

REV:

A

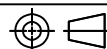
UNIT

mm

SCALE

1=1

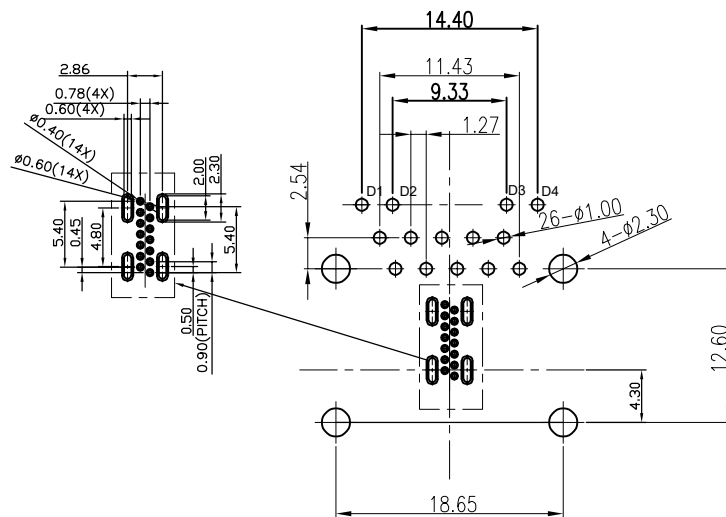
QUALITY
SYMBOLS



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	VBUS	Bus Power	B9	VBUS	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	Configuraaion Channel
A9	VBUS	Bus Power	B4	VBUS	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+SIDE ENTRY TYPE C 14PIN CONNECTOR

MATERILA:	PART NO: U30RJ01-X50X-017	SIZE: A4
FINSH:	DWG NO: U30RJ01-X50X-017	2of2