

Communication Accessories

SMT Modular Jack Series

KLS12-SMT01-8P SMT Modular Jack Series

ELECTRICAL

- 1.Voltage Rating: 125VAC
- 2.Current Rating: 1.5A
- 3.Contact Resistance: 30MΩ Max.
- 4.Insulation Resistance: 500MΩ Min.@500VDC
- 5.Withstanding Resistance :1000VAC RMS. 50Hz 1minute

MATERIALS

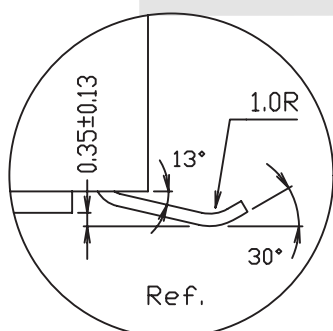
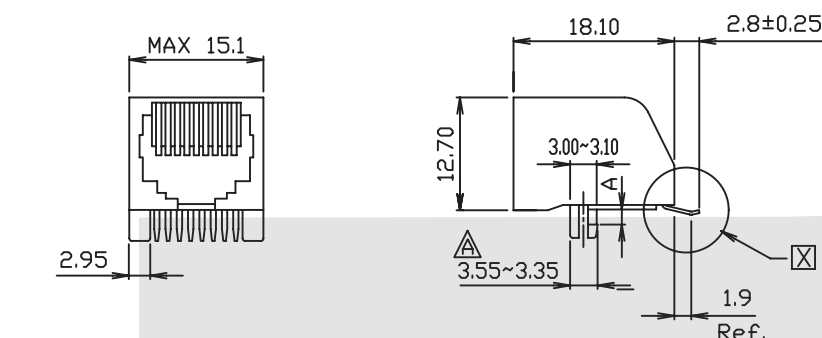
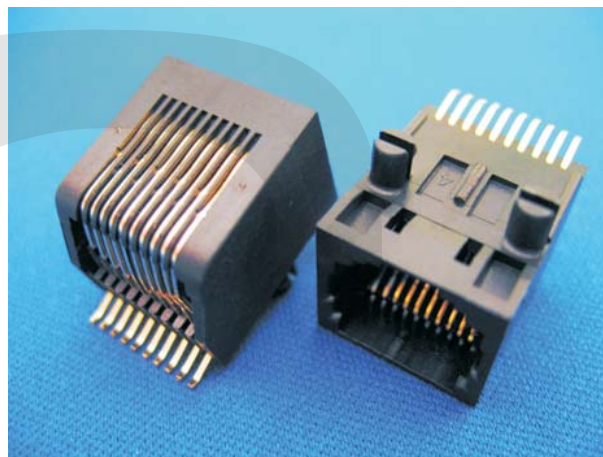
- 1.Housing: High Temp. Thermoplastic Flammability UL 94V-0
- 2.Contact: Phosphor Bronze Flat Pin
- 3.Plating:Gold Plating over nickel in contact,Tin Planting over nickel in solder area

MECHANICAL

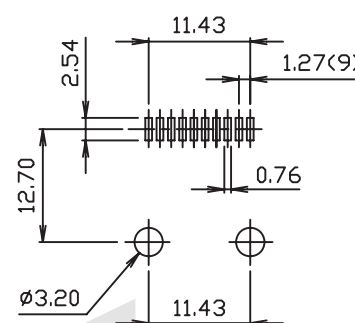
- 1.Durability: 750 cycles Min.
- 2.PCB Retention pre-solder: 1 LB Min.

ENVIRONMENTAL

- 1.Storage:-40 C ~ +80 C



DETAIL X



PC Board Layout

ORDER INFORMATION

KLS12-SMT01 -8P8C - 03

Part Number

Point No.
8P8C Point

Gold Thickness
01-Fu "
03-6u "
05-30u "
06-50u "

SMT Modular Jack Series

KLS12-SMT02-6P SMT Modular Jack Series With shielded

ELECTRICAL

- 1.Voltage Rating: 125VAC
- 2.Current Rating: 1.5A
- 3.Contact Resistance: 30MΩ Max.
- 4.Insulation Resistance: 500MΩ Min.@500VDC
- 5.Withstanding Resistance :1000VAC RMS. 50Hz 1minute

MATERIALS

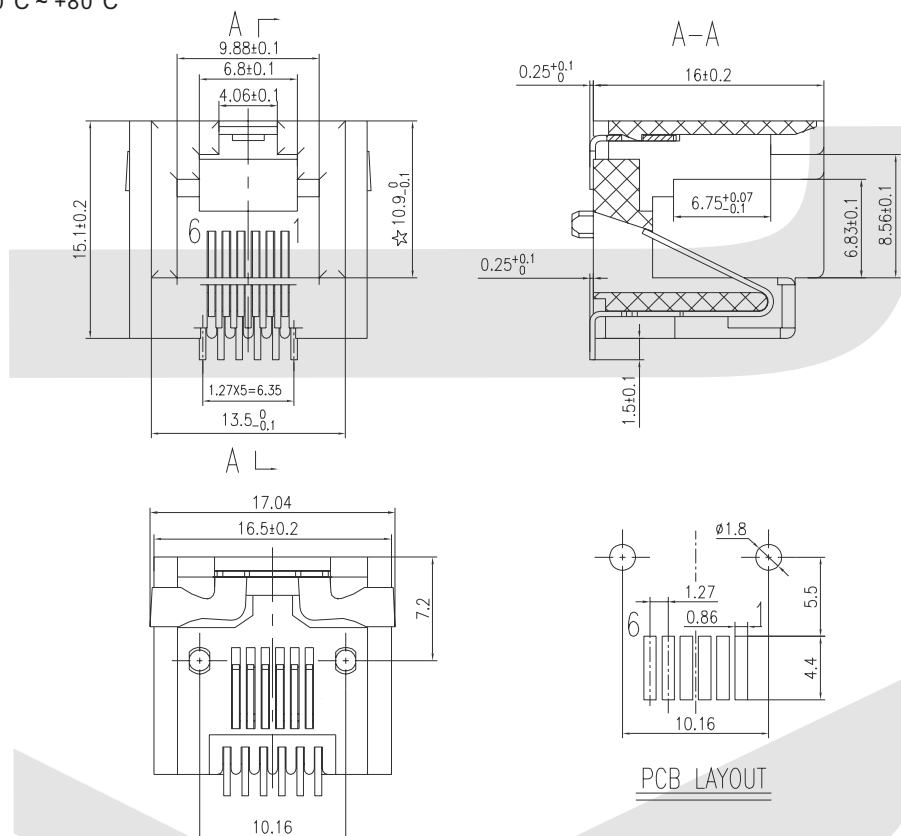
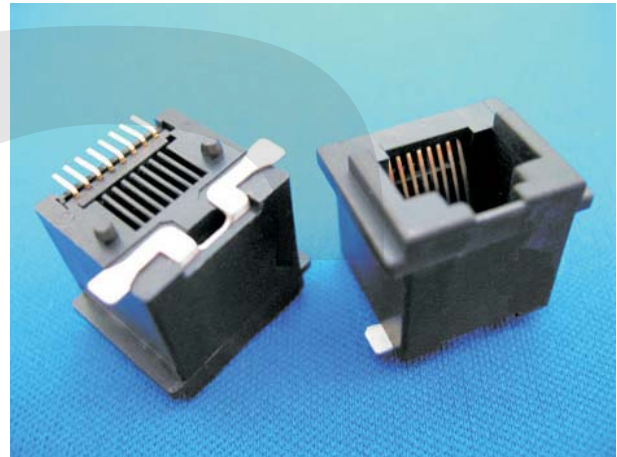
- 1.Housing: High Temp. Thermoplastic Flammability UL 94V-0
- 2.Contact: Phosphor Bronze Flat Pin
- 3.Plating:Gold Plating over nickel in contact,Tin Planting over nickel in solder area
- 4.Shield: 0.23 Thickness Brass With Nickel Plated

MECHANICAL

- 1.Durability: 750 cycles Min.
- 2.PCB Retention pre-solder: 1 LB Min.

ENVIRONMENTAL

- 1.Storage:-40 C ~ +80 C



ORDER INFORMATION

KLS12-SMT02 -6P6C - 03

Part Number

Point No.

6P6C Point

Gold Thickness

01-Fu "
03-6u "
05-30u "
06-50u "

SMT Modular Jack Series

KLS12-SMT03-8P SMT Modular Jack Series With shielded

ELECTRICAL

- 1.Voltage Rating: 125VAC
- 2.Current Rating: 1.5A
- 3.Contact Resistance: 30MΩ Max.
- 4.Insulation Resistance: 500MΩ Min.@500VDC
- 5.Withstanding Resistance :1000VAC RMS. 50Hz 1minute

MATERIALS

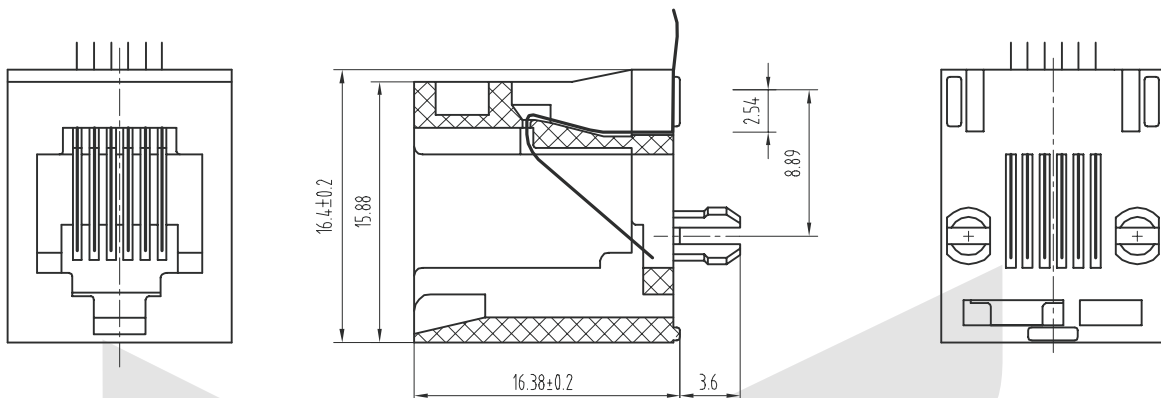
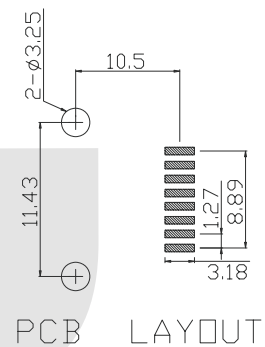
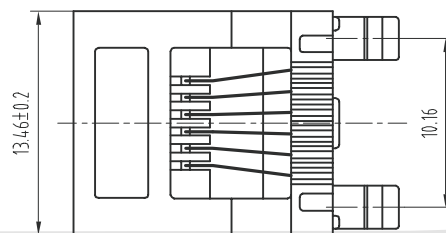
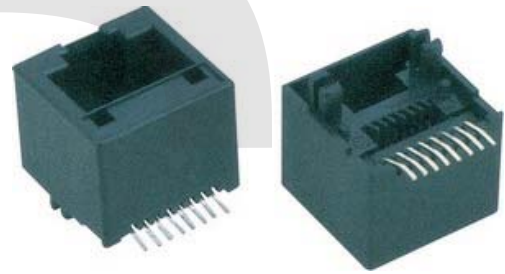
- 1.Housing: High Temp. Thermoplastic Flammability UL 94V-0
- 2.Contact: Phosphor Bronze Flat Pin
- 3.Plating:Gold Plating over nickel in contact,Tin Planting over nickel in solder area
- 4.Shield: 0.23 Thickness Brass With Nickel Plated

MECHANICAL

- 1.Durability: 750 cycles Min.
- 2.PCB Retention pre-solder: 1 LB Min.

ENVIRONMENTAL

- 1.Storage:-40 C ~ +80 C



ORDER INFORMATION

KLS12-SMT03 -8P8C - 03

Part Number

Point No.
8P8C Point

Gold Thickness
01-Fu "
03-6u "
05-30u "
06-50u "

SMT Modular Jack Series

KLS12-SMT04-4P SMT Modular Jack Series With shielded

ELECTRICAL

- 1.Voltage Rating: 125VAC
- 2.Current Rating: 1.5A
- 3.Contact Resistance: 30MΩ Max.
- 4.Insulation Resistance: 500MΩ Min.@500VDC
- 5.Withstanding Resistance :1000VAC RMS. 50Hz 1minute

MATERIALS

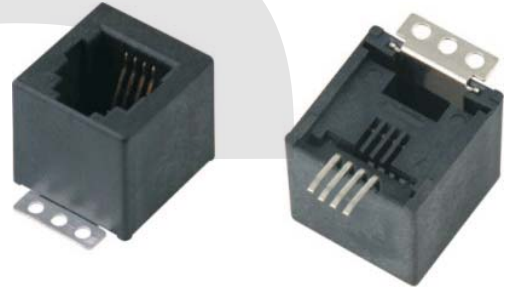
- 1.Housing: High Temp. Thermoplastic Flammability UL 94V-0
- 2.Contact: Phosphor Bronze Flat Pin
- 3.Plating:Gold Plating over nickel in contact,Tin Planting over nickel in solder area

MECHANICAL

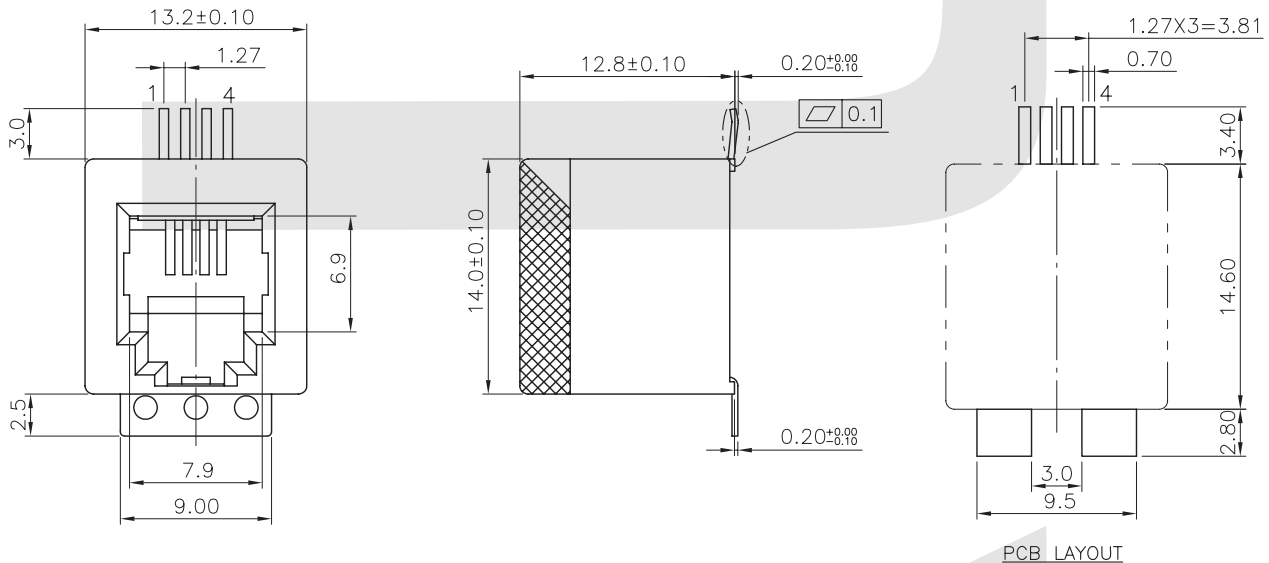
- 1.Durability: 750 cycles Min.
- 2.PCB Retention pre-solder: 1 LB Min.

ENVIRONMENTAL

- 1.Storage:-40 C ~ +80 C



XII



ORDER INFORMATION

KLS12-SMT04 -4P4C - 03

Part Number	Point No.	Gold Thickness
	4P4C Point	01-Fu " 03-6u " 05-30u " 06-50u "

SMT Modular Jack Series

KLS12-SMT04-6P SMT Modular Jack Series With shielded

ELECTRICAL

- 1.Voltage Rating: 125VAC
- 2.Current Rating: 1.5A
- 3.Contact Resistance: 30MΩ Max.
- 4.Insulation Resistance: 500MΩ Min.@500VDC
- 5.Withstanding Resistance :1000VAC RMS. 50Hz 1minute

MATERIALS

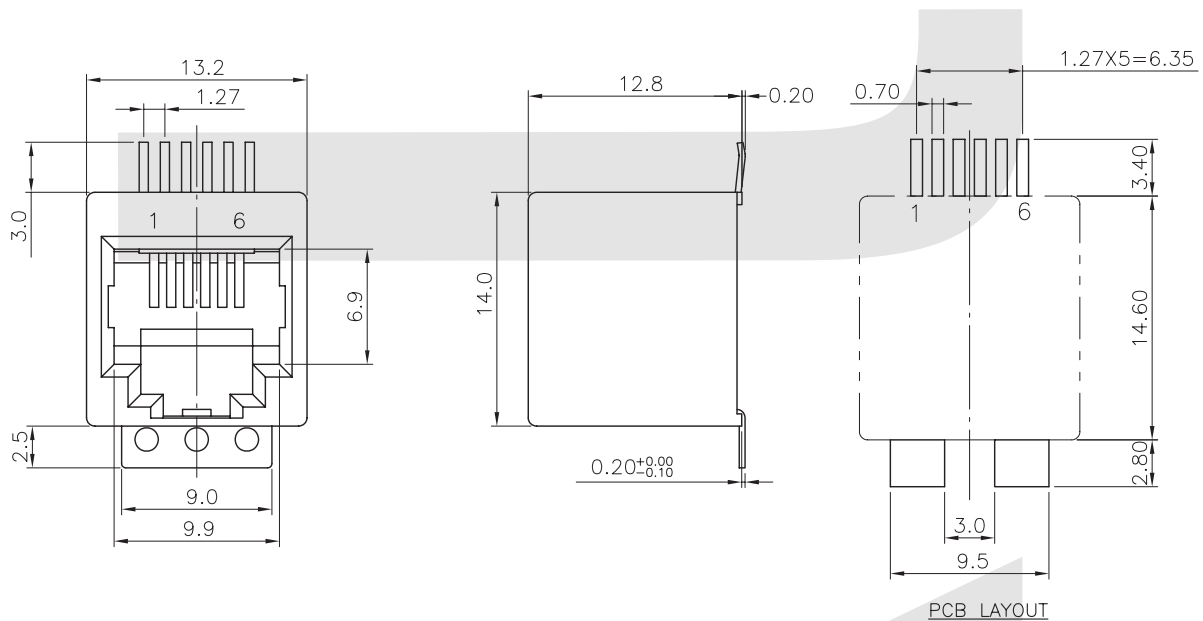
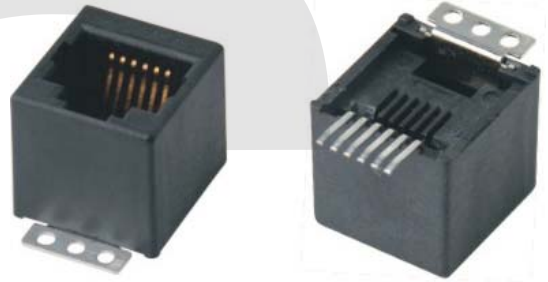
- 1.Housing: High Temp. Thermoplastic Flammability UL 94V-0
- 2.Contact: Phosphor Bronze Flat Pin
- 3.Plating:Gold Plating over nickel in contact,Tin Planting over nickel in solder area

MECHANICAL

- 1.Durability: 750 cycles Min.
- 2.PCB Retention pre-solder: 1 LB Min.

ENVIRONMENTAL

- 1.Storage:-40 C ~ +80 C



ORDER INFORMATION

KLS12-SMT04 -6P6C - 03

Part Number

Point No.

Gold Thickness

6P6C Point
6P4C Point

01-Fu "
03-6u "
05-30u "
06-50u "

SMT Modular Jack Series

KLS12-SMT04-8P SMT Modular Jack Series With shielded

ELECTRICAL

- 1.Voltage Rating: 125VAC
- 2.Current Rating: 1.5A
- 3.Contact Resistance: 30MΩ Max.
- 4.Insulation Resistance: 500MΩ Min.@500VDC
- 5.Withstanding Resistance :1000VAC RMS. 50Hz 1minute

MATERIALS

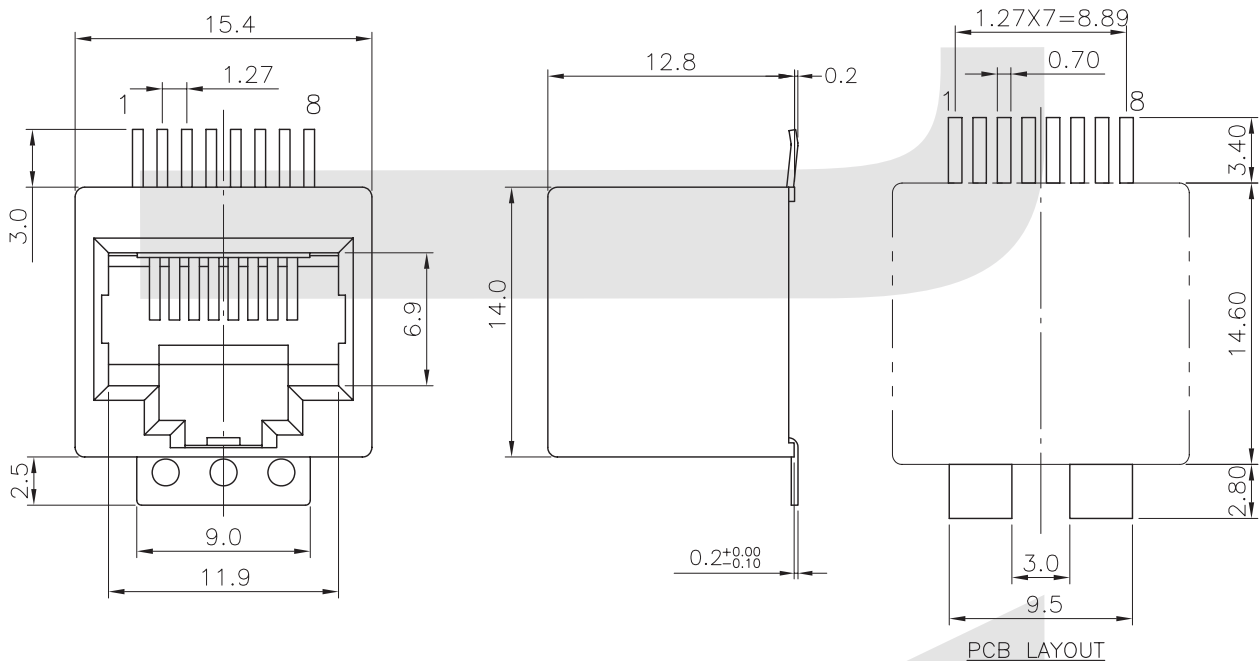
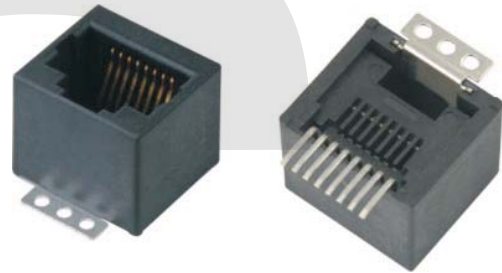
- 1.Housing: High Temp. Thermoplastic Flammability UL 94V-0
- 2.Contact: Phosphor Bronze Flat Pin
- 3.Plating:Gold Plating over nickel in contact,Tin Planting over nickel in solder area
- 4.Shield: 0.23 Thickness Brass With Nickel Plated

MECHANICAL

- 1.Durability: 750 cycles Min.
- 2.PCB Retention pre-solder: 1 LB Min.

ENVIRONMENTAL

- 1.Storage:-40 C ~ +80 C



ORDER INFORMATION

KLS12-SMT04 -8P8C - 03

Part Number	Point No.	Gold Thickness
	8P8C Point	01-Fu " 03-6u " 05-30u " 06-50u "

SMT Modular Jack Series

KLS12-SMT05-8P (RJ45 Jack)

XII

MATERIAL:

1. HOUSING MATERIAL : GLASS FILLED PLYESTER UL94V-0ABS, PBT, NYLON
2. HOUSING COLOR : BLACK, GRAY, IVORY, WHITE OR OTHERS
3. CONTACT MATERIAL : PHOSPHOR BRONZE $\phi 0.46\text{mm}$
4. PLATING : GOLD PLATING OVER NICKEL. GOLD PLATING THICKNESS 1.5u"/3u"/6u"/15u"/30u"/50u"
5. SHIELD : 0.23 THICKNESS BRASS WITH NICKEL PLATED

ELECTRICAL:

1. VOLTAGE RATING : 125 VAC RMS.
2. CURRENT RATING : 1.5 AMP
3. CONTACT RESISTANCE : 30 MILLIOHMS MAX.
4. INSULATION RESISTANCE : 500 MEGOHMS MIN @500 VDC
5. DIELECTRIC WITHSTANDING RESISTANCE : 1000 VAC RMS. 50Hz 1MINUTE

MECHANICAL:

1. DURABILITY : 750 CYCLES MIN
2. PCB RETENTION PRE-SOLDER : 1 LB MIN

ENVIRONMENTAL:

1. STORAGE : -40°C~80°C



ORDER INFORMATION

KLS12-SMT05-8P8C - 03

Part Number

Point No.

8P8C Point

Gold Thickness

01-Fu "
03-6u "
05-30u "
06-50u "

SMT Modular Jack Series

KLS12-SMT06-6P SMT Modular Jack Series With shielded

ELECTRICAL

- 1.Voltage Rating: 125VAC
- 2.Current Rating: 1.5A
- 3.Contact Resistance: 30MΩ Max.
- 4.Insulation Resistance: 500MΩ Min.@500VDC
- 5.Withstanding Resistance :1000VAC RMS. 50Hz 1minute

MATERIALS

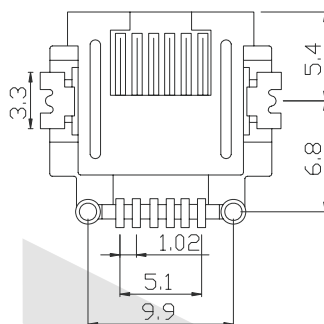
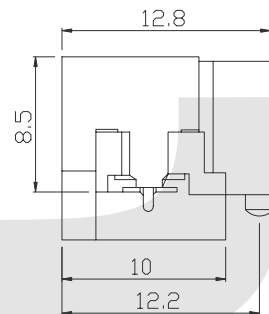
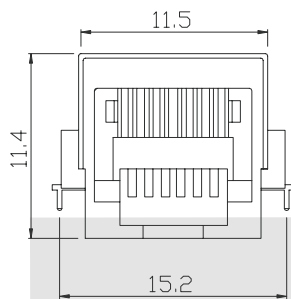
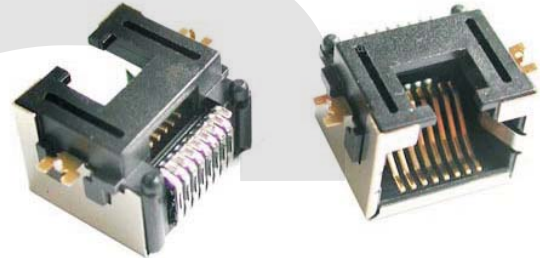
- 1.Housing: High Temp. Thermoplastic Flammability UL 94V-0
- 2.Contact: Phosphor Bronze Flat Pin
- 3.Plating:Gold Plating over nickel in contact,Tin Planting over nickel in solder area
- 4.Shield: 0.23 Thickness Brass With Nickel Plated

MECHANICAL

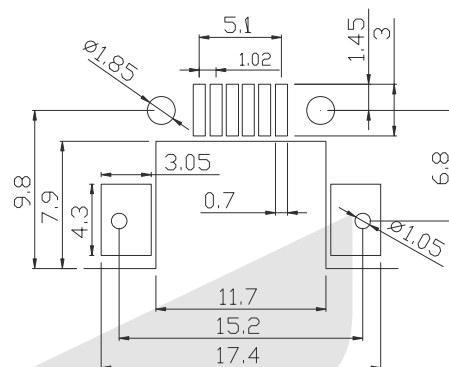
- 1.Durability: 750 cycles Min.
- 2.PCB Retention pre-solder: 1 LB Min.

ENVIRONMENTAL

- 1.Storage:-40 C ~ +80 C



PCB LAYOUT



ORDER INFORMATION

KLS12-SMT06 -6P6C - 03

Part Number

Point No.
6P6C Point

Gold Thickness
01-Fu "
03-6u "
05-30u "
06-50u "

SMT Modular Jack Series

KLS12-SMT06-8P SMT Modular Jack Series With shielded

ELECTRICAL

- 1.Voltage Rating: 125VAC
- 2.Current Rating: 1.5A
- 3.Contact Resistance: 30MΩ Max.
- 4.Insulation Resistance: 500MΩ Min.@500VDC
- 5.Withstanding Resistance :1000VAC RMS. 50Hz 1minute

MATERIALS

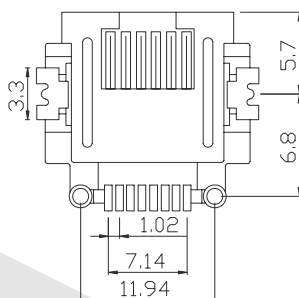
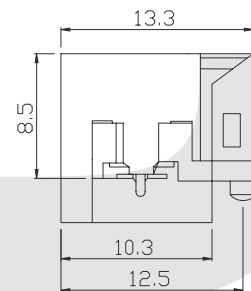
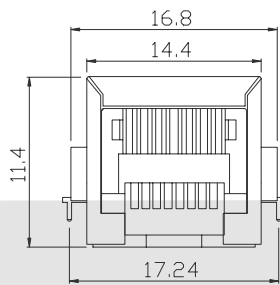
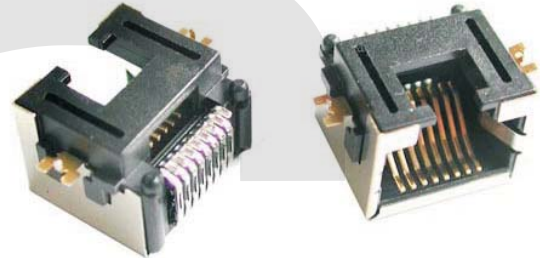
- 1.Housing: High Temp. Thermoplastic Flammability UL 94V-0
- 2.Contact: Phosphor Bronze Flat Pin
- 3.Plating:Gold Plating over nickel in contact,Tin Planting over nickel in solder area
- 4.Shield: 0.23 Thickness Brass With Nickel Plated

MECHANICAL

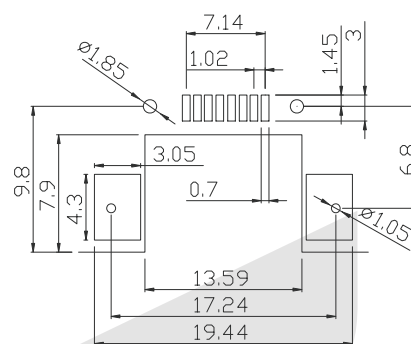
- 1.Durability: 750 cycles Min.
- 2.PCB Retention pre-solder: 1 LB Min.

ENVIRONMENTAL

- 1.Storage:-40 C ~ +80 C



PCB LAYOUT



ORDER INFORMATION

KLS12-SMT06 -8P8C - 03

Part Number

Point No.
8P8C Point

Gold Thickness
01-Fu "
03-6u "
05-30u "
06-50u "

SMT Modular Jack Series

KLS12-SMT07-8P (53 SERIES)

XII

MATERIAL:

1. HOUSING MATERIAL : GLASS FILLED PLYESTER UL94V-0ABS, PBT, NYLON
2. HOUSING COLOR : BLACK, GRAY, IVORY, WHITE OR OTHERS
3. CONTACT MATERIAL : PHOSPHOR BRONZE $\phi 0.46\text{mm}$
4. PLATING : GOLD PLATING OVER NICKEL. GOLD PLATING THICKNESS 1.5u"/3u"/6u"/15u"/30u"/50u"
5. SHIELD : 0.23 THICKNESS BRASS WITH NICKEL PLATED

ELECTRICAL:

1. VOLTAGE RATING : 125 VAC RMS.
2. CURRENT RATING : 1.5 AMP
3. CONTACT RESISTANCE : 30 MILLIOHMS MAX.
4. INSULATION RESISTANCE : 500 MEGOHMS MIN @500 VDC
5. DIELECTRIC WITHSTANDING RESISTANCE : 1000 VAC RMS. 50Hz 1MINUTE

MECHANICAL:

1. DURABILITY : 750 CYCLES MIN
2. PCB RETENTION PRE-SOLDER : 1 LB MIN

ENVIRONMENTAL:

1. STORAGE : -40°C~80°C



ORDER INFORMATION

KLS12-SMT07-8P8C - 03

Part Number

Point No.

8P8C Point

Gold Thickness

01-Fu "
03-6u "
05-30u "
06-50u "

SMT Modular Jack Series

KLS12-SMT08-6P6C

MATERIAL:

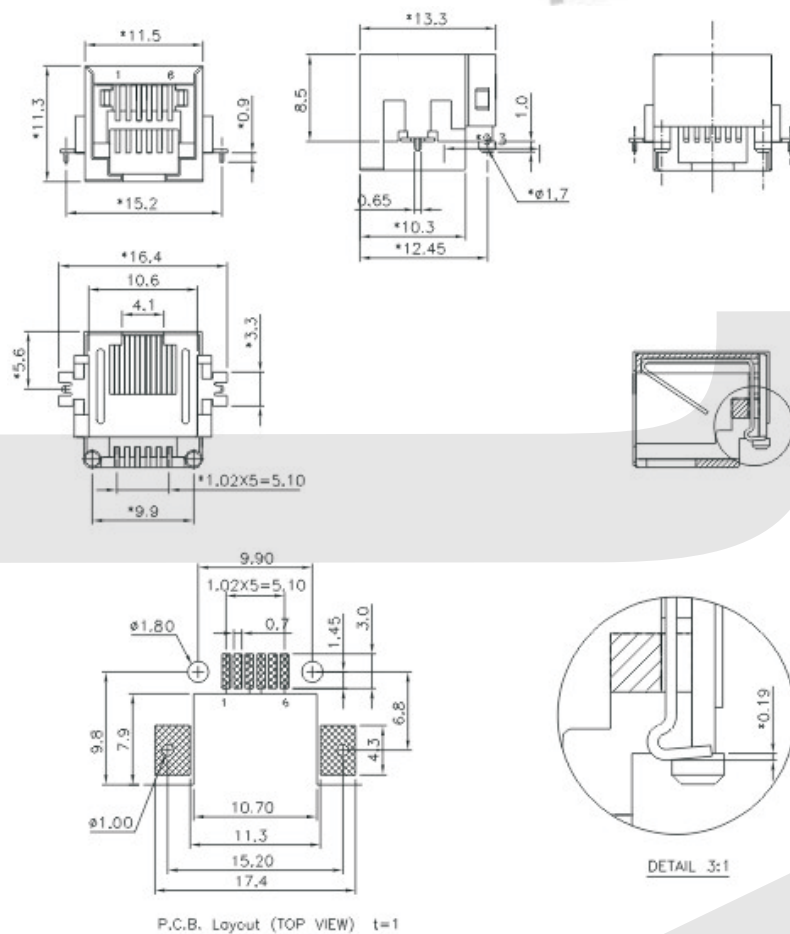
1. Voltage Rating: 125VAC
2. Current Rating: 1.5A
3. Contact Resistance: 30MΩ Max.
4. Insulation Resistance: 500MΩ Min. @ 500VDC
5. Withstanding Resistance: 1000VAC RMS. 50Hz 1minute

ELECTRICAL:

1. Housing: High Temp. Thermoplastic Flammability UL 94V-0
2. Contact: Phosphor Bronze Flat Pin
3. Plating: Gold Plating over nickel in contact, Tin Plating over nickel in solder area
4. Shield: 0.23 Thickness Brass With Nickel Plated

MECHANICAL:

1. DURABILITY : 750 CYCLES MIN
2. PCB RETENTION PRE-SOLDER : 1 LB MIN



ORDER INFORMATION

KLS12-SMT08-6P6C - 03

Part Number

Point No .
6P6C POINT

Gold Thickness

01-Fu "
03-6u "
05-30u "
06-50u "

SMT Modular Jack Series

KLS12-SMT08-8P8C

MATERIAL:

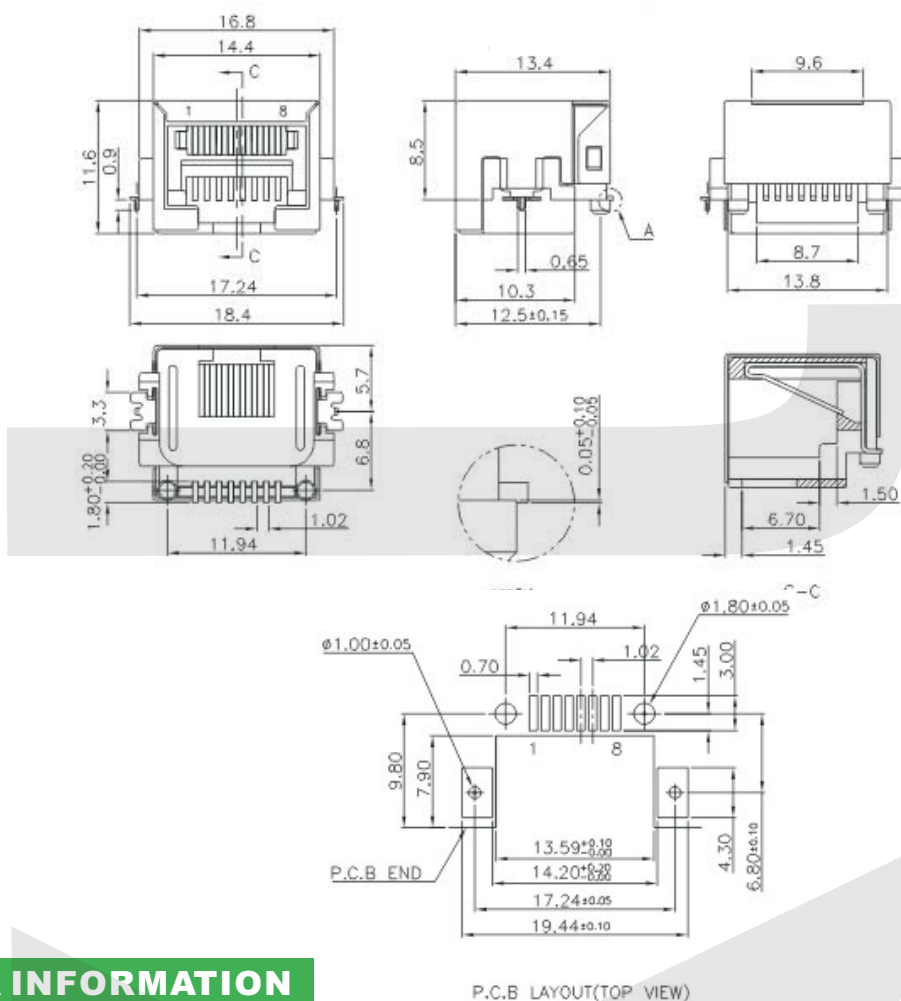
- 1.Voltage Rating: 125VAC
- 2.Current Rating: 1.5A
- 3.Contact Resistance: 30MΩ Max.
- 4.Insulation Resistance: 500MΩ Min. @ 500VDC
- 5.Withstanding Resistance: 1000VAC RMS. 50Hz 1minute

ELECTRICAL:

- 1.Housing: High Temp. Thermoplastic Flammability UL 94V-0
- 2.Contact: Phosphor Bronze Flat Pin
- 3.Plating: Gold Plating over nickel in contact, Tin Planting over nickel in solder area
- 4.Shield: 0.23 Thickness Brass With Nickel Plated

MECHANICAL:

1. DURABILITY : 750 CYCLES MIN
2. PCB RETENTION PRE-SOLDER : 1 LB MIN



ORDER INFORMATION

KLS12-SMT08-8P8C - 03

Part Number	Point No.	Gold Thickness
	8P8C Point	01-Fu " 03-6u " 05-30u " 06-50u "

SMT Modular Jack Series

KLS12-SMT10-8P SMT Modular Jack Series With shielded

ELECTRICAL

- 1.Voltage Rating: 125VAC
- 2.Current Rating: 1.5A
- 3.Contact Resistance: 30MΩ Max.
- 4.Insulation Resistance: 500MΩ Min.@500VDC
- 5.Withstanding Resistance :1000VAC RMS. 50Hz 1minute

MATERIALS

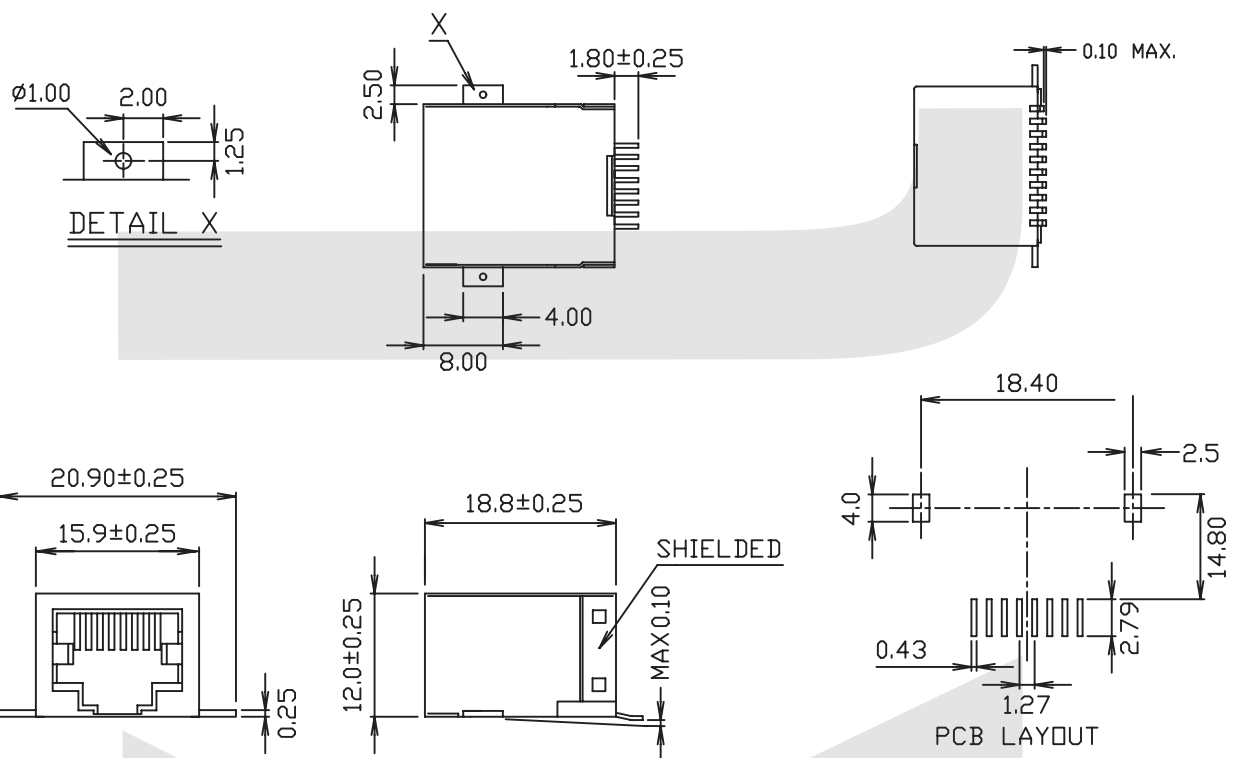
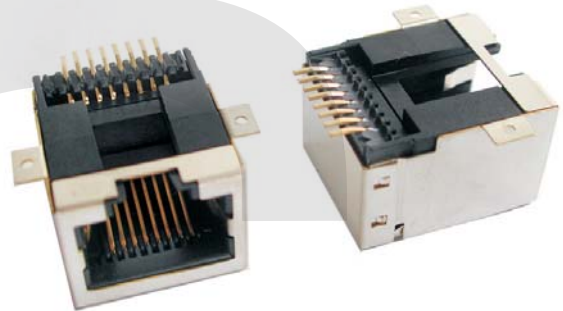
- 1.Housing: High Temp. Thermoplastic Flammability UL 94V-0
- 2.Contact: Phosphor Bronze Flat Pin
- 3.Plating:Gold Plating over nickel in contact,Tin Planting over nickel in solder area
- 4.Shield: 0.23 Thickness Brass With Nickel Plated

MECHANICAL

- 1.Durability: 750 cycles Min.
- 2.PCB Retention pre-solder: 1 LB Min.

ENVIRONMENTAL

- 1.Storage:-40 C ~ +80 C



ORDER INFORMATION

KLS12-SMT10-8P8C - 03

Part Number	Point No.	Gold Thickness
	8P8C Point	01-Fu " 03-6u " 05-30u " 06-50u "

SMT Modular Jack Series

KLS12-SMT09-8P SMT Modular Jack Series With shielded

ELECTRICAL

- 1.Voltage Rating: 125VAC
- 2.Current Rating: 1.5A
- 3.Contact Resistance: 30MΩ Max.
- 4.Insulation Resistance: 500MΩ Min.@500VDC
- 5.Withstanding Resistance :1000VAC RMS. 50Hz 1minute

MATERIALS

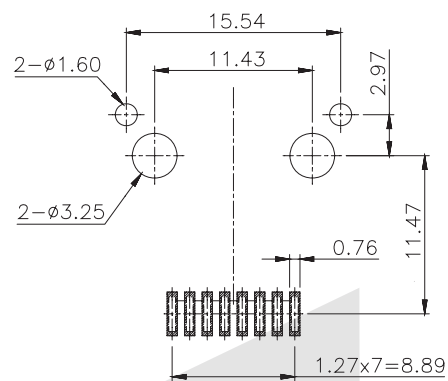
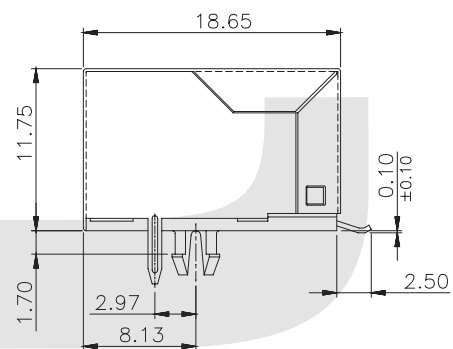
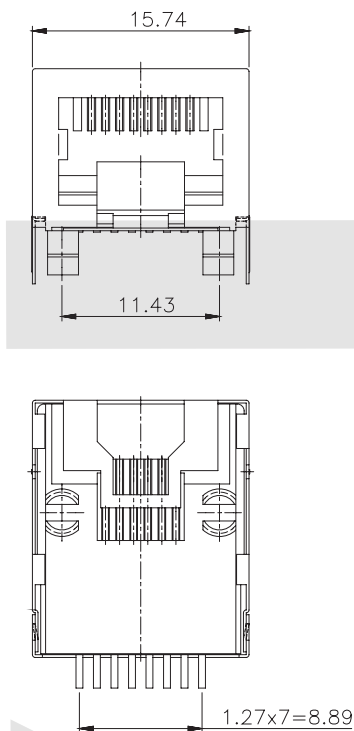
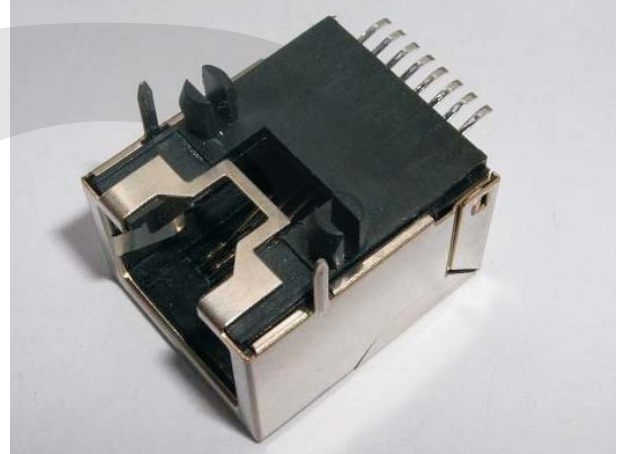
- 1.Housing: High Temp. Thermoplastic Flammability UL 94V-0
- 2.Contact: Phosphor Bronze Flat Pin
- 3.Plating:Gold Plating over nickel in contact,Tin Planting over nickel in solder area
- 4.Shield: 0.23 Thickness Brass With Nickel Plated

MECHANICAL

- 1.Durability: 750 cycles Min.
- 2.PCB Retention pre-solder: 1 LB Min.

ENVIRONMENTAL

- 1.Storage:-40 C ~ +80 C



PCB LAYOUT/TOP VIEW

ORDER INFORMATION

KLS12-SMT09 -8P8C - 03

Part Number

Point No.
8P8C Point

Gold Thickness
01-Fu "
03-6u "
05-30u "
06-50u "

SMT Modular Jack Series

KLS12-SMT11-8P SMT Modular Jack Series With shielded

ELECTRICAL

- 1.Voltage Rating: 125VAC
- 2.Current Rating: 1.5A
- 3.Contact Resistance: 30MΩ Max.
- 4.Insulation Resistance: 500MΩ Min.@500VDC
- 5.Withstanding Resistance : 1000VAC RMS. 50Hz 1minute

MATERIALS

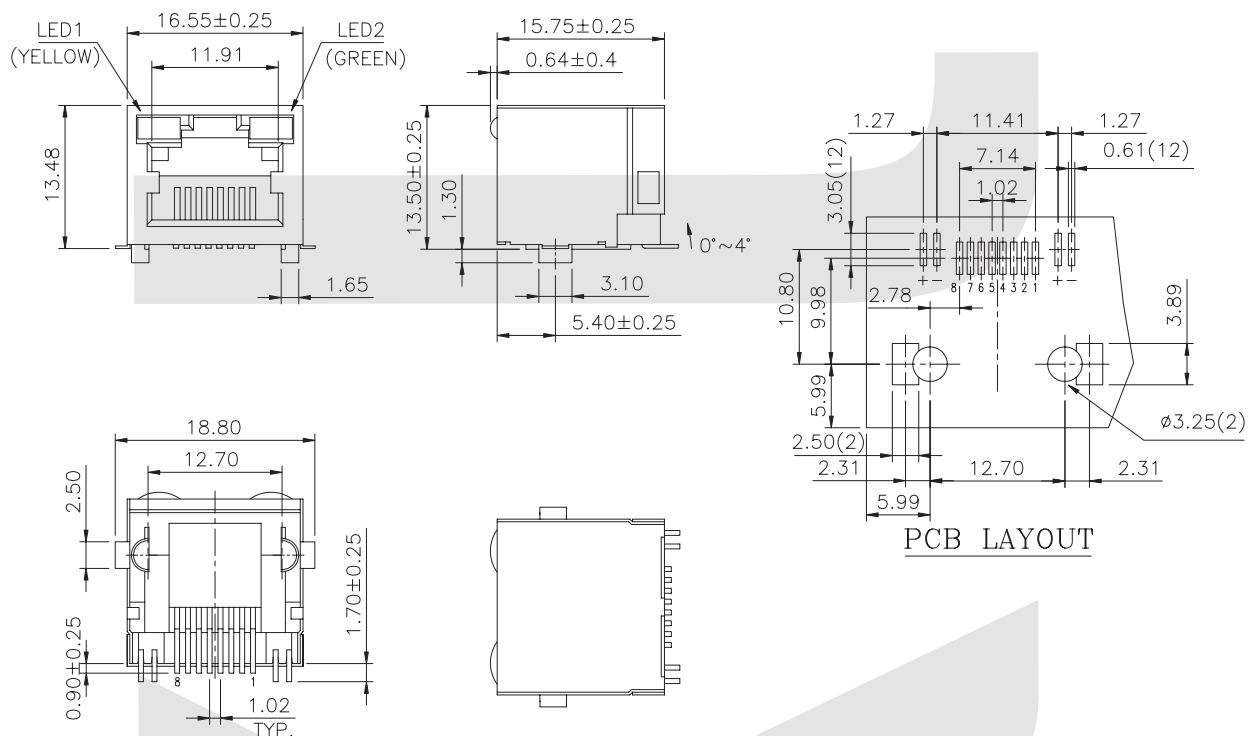
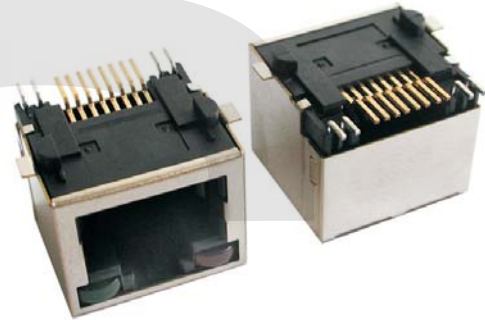
- 1.Housing: High Temp. Thermoplastic Flammability UL 94V-0
- 2.Contact: Phosphor Bronze Flat Pin
- 3.Plating:Gold Plating over nickel in contact,Tin Planting over nickel in solder area
- 4.Shield: 0.23 Thickness Brass With Nickel Plated

MECHANICAL

- 1.Durability: 750 cycles Min.
- 2.PCB Retention pre-solder: 1 LB Min.

ENVIRONMENTAL

- 1.Storage:-40 C ~ +80 C



ORDER INFORMATION

KLS12-SMT11 -8P8C - 03

Part Number	Point No.	Gold Thickness
	8P8C Point	01-Fu "
		03-6u "
		05-30u "
		06-50u "

XII

- 1.Voltage Rating: 125VAC
- 2.Current Rating: 1.5A
- 3.Contact Resistance: 30MΩ Max.
- 4.Insulation Resistance: 500MΩ Min.@500VDC
- 5.Withstanding Resistance :1000VAC RMS. 50Hz 1minute

1.Storage:-40 C ~ +80 C



Part Number	Point No.	Gold Thickness
	8P8C Point	01-Fu "
		03-6u "
		05-30u "
		06-50u "

SMT Modular Jack Series

KLS12-SMT13-4P SMT Modular Jack Series

ELECTRICAL

- 1.Voltage Rating: 125VAC
- 2.Current Rating: 1.5A
- 3.Contact Resistance: 30MΩ Max.
- 4.Insulation Resistance: 500MΩ Min.@500VDC
- 5.Withstanding Resistance :1000VAC RMS. 50Hz 1minute

MATERIALS

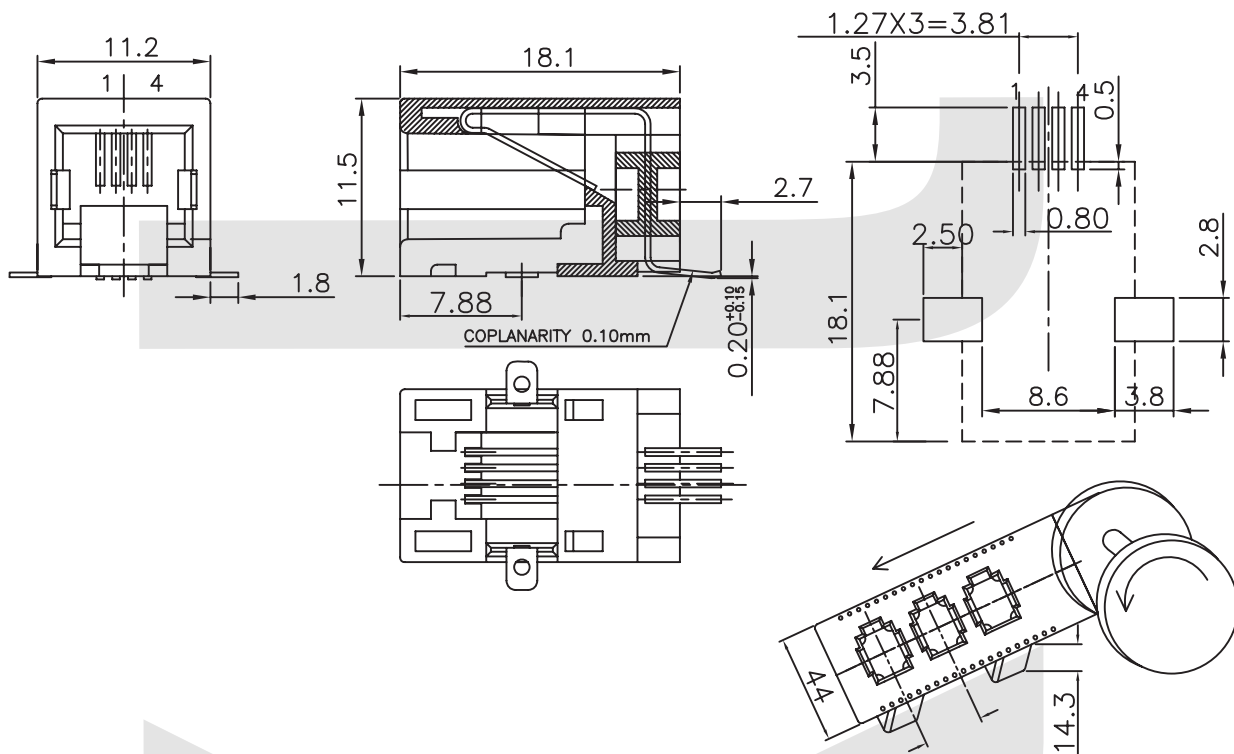
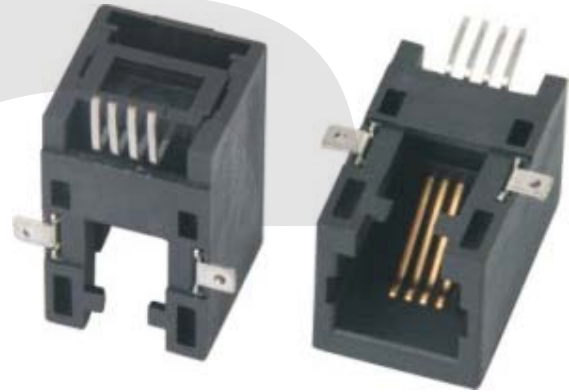
- 1.Housing: High Temp. Thermoplastic Flammability UL 94V-0
- 2.Contact: Phosphor Bronze Flat Pin
- 3.Plating:Gold Plating over nickel in contact,Tin Planting over nickel in solder area

MECHANICAL

- 1.Durability: 750 cycles Min.
- 2.PCB Retention pre-solder: 1 LB Min.

ENVIRONMENTAL

- 1.Storage:-40 C ~ +80 C



ORDER INFORMATION

KLS12-SMT13 -4P4C - 03

Part Number

Point No.
4P4C Point

Gold Thickness
01-Fu "
03-6u "
05-30u "
06-50u "

SMT Modular Jack Series

KLS12-SMT14-8P SMT Modular Jack Series

ELECTRICAL

- 1.Voltage Rating: 125VAC
- 2.Current Rating: 1.5A
- 3.Contact Resistance: 30MΩ Max.
- 4.Insulation Resistance: 500MΩ Min.@500VDC
- 5.Withstanding Resistance :1000VAC RMS. 50Hz 1minute

MATERIALS

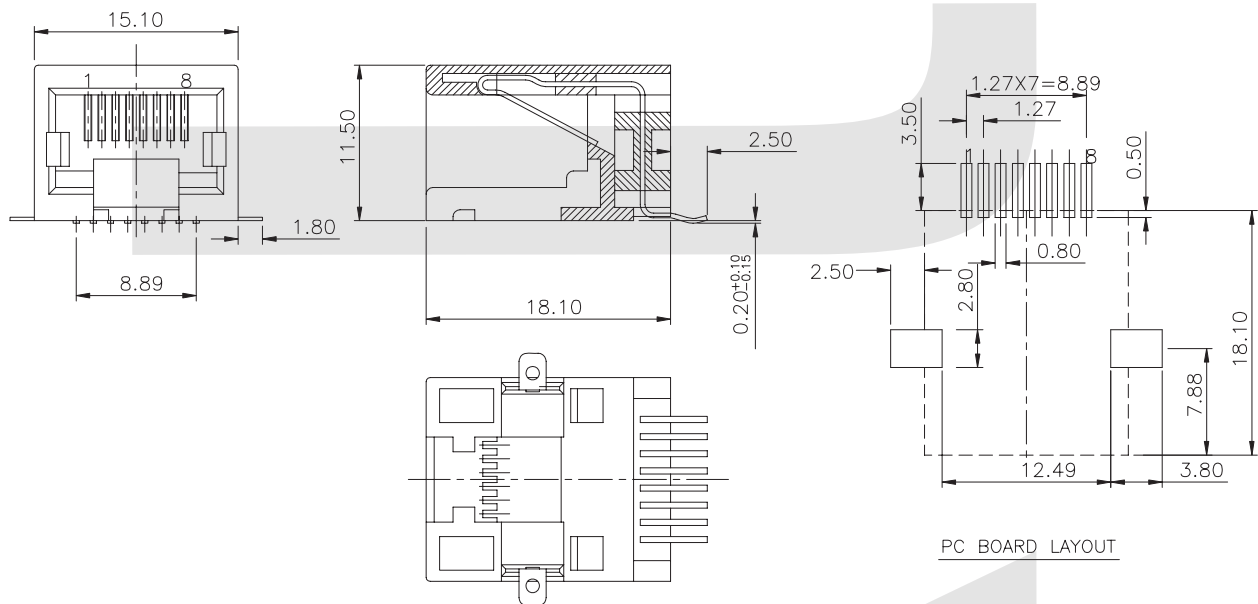
- 1.Housing: High Temp. Thermoplastic Flammability UL 94V-0
- 2.Contact: Phosphor Bronze Flat Pin
- 3.Plating:Gold Plating over nickel in contact,Tin Planting over nickel in solder area

MECHANICAL

- 1.Durability: 750 cycles Min.
- 2.PCB Retention pre-solder: 1 LB Min.

ENVIRONMENTAL

- 1.Storage:-40 C ~ +80 C



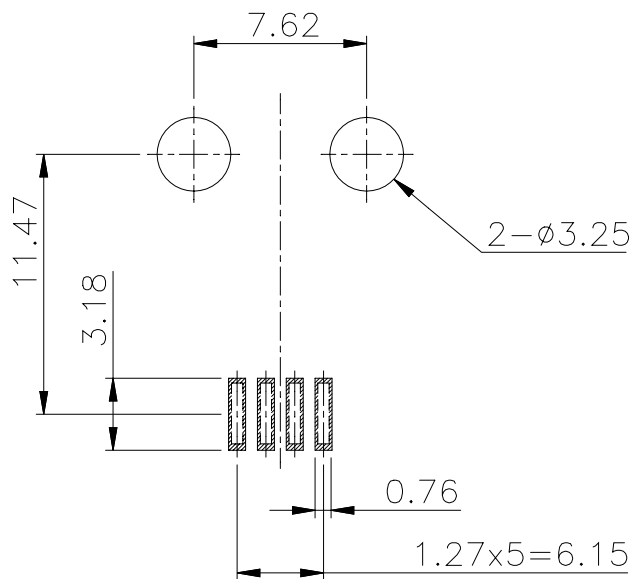
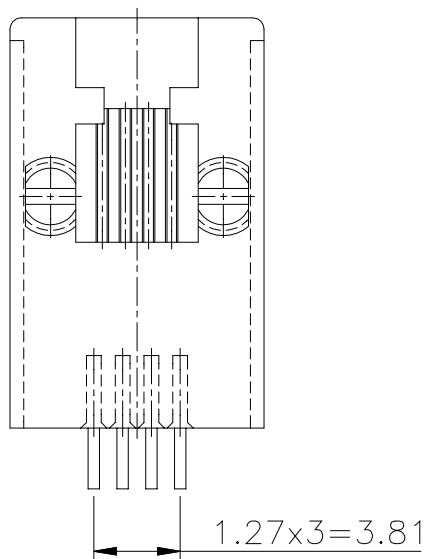
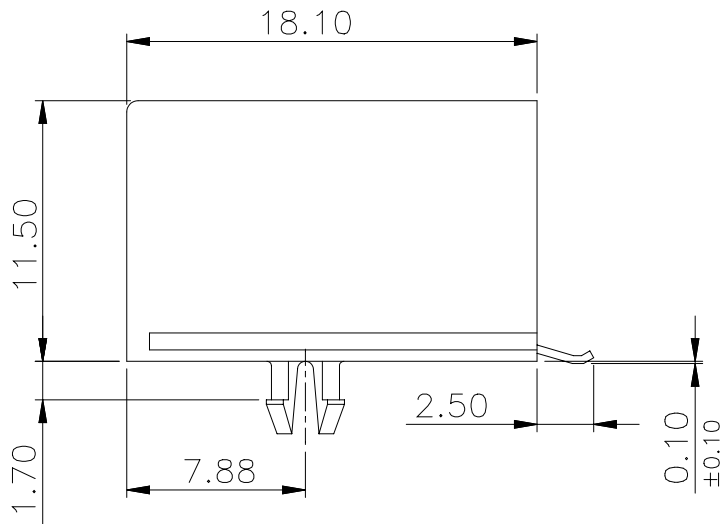
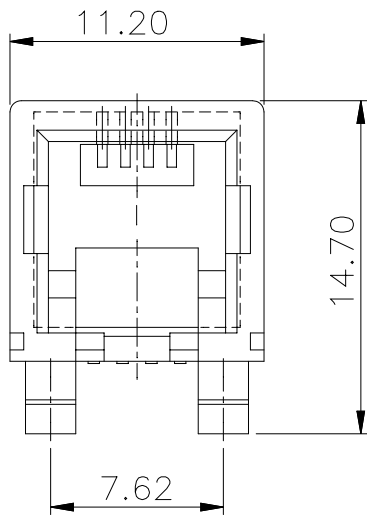
ORDER INFORMATION

KLS12-SMT14 -8P8C - 02

Part Number

Point No.
8P8C Point

Gold Plating
01-Fu "
02-3u "
03-6u "
05-30u "
06-50u "



PCB LAYOUT/TOP VIEW

Notes:

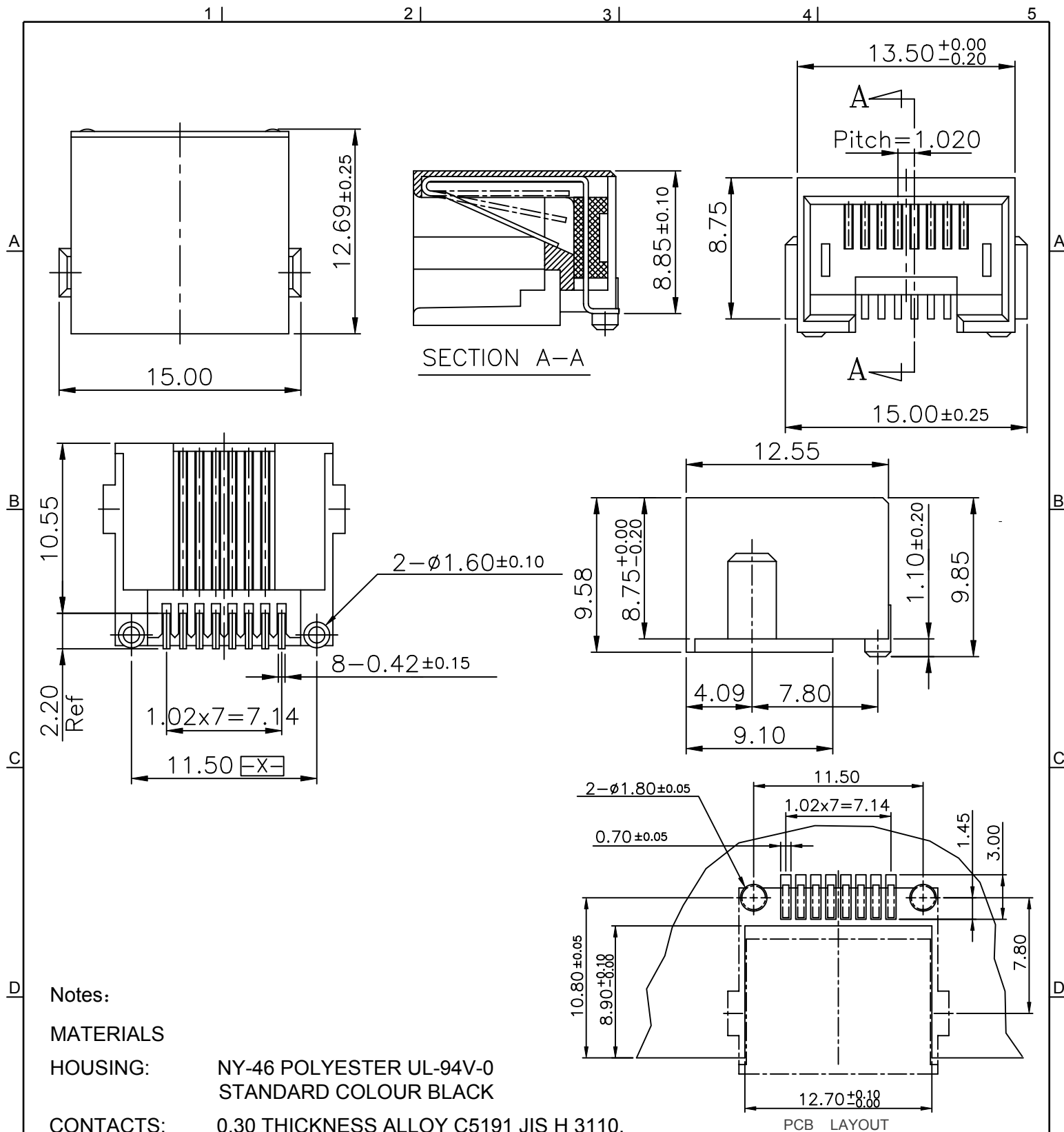
MATERIALS

HOUSING: HIGH TEMP. THERMOPLASTIC FLAMMABILITY
RATING UL 94V-0

CONTACTS: PHOSPHOR BRONZE

PLATING: GOLD PLATING OVER NICKEL IN CONTACT,
TIN PLATING OVER NICKEL IN SOLDER AREA

TOLERANCE UNLESS OTHERWISE SPECIFIED		CUSTOMER COPY	KLS ELECTRONIC CO.,LTD				
LINER	ANGLES		PROD. DESCIP. 4P4C SMT JACK				
0 ± 0.50	± 3'	PROJECTION	PROD. NUMBER KLS12				
.0 ± 0.38							
.00 ± 0.25							
DESIGN							
ROHS	CHECK		SIZE	UNIT	SCALE	SHEET	REV.
	APPRO.		A4	MM	3/1	1 OF 1	A



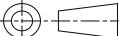
Notes:

MATERIALS

HOUSING: NY-46 POLYESTER UL-94V-0
STANDARD COLOUR BLACK

CONTACTS: 0.30 THICKNESS ALLOY C5191 JIS H 3110,
GOLD PLATING OVER NICKEL

GOLD PLATING: SELECTIVE GOLD PLATING

TOLERANCE UNLESS OTHERWISE SPECIFIED		CUSTOMER COPY	KLS ELECTRONIC CO., LTD				
LINER	ANGLES		PROD. RJ45 8P8C SMT JACK DESCRIPT. (SMT TYPE)				
0 ± 0.50	± 3°	PROJECTION	PROD. KLS12 NUMBER				
0 ± 0.38							
0.00 ± 0.25							
DESIGN							
CHECK			SIZE	UNIT	SCALE	SHEET	REV.
APPRO.			A4	MM	3/1	1 OF 1	A