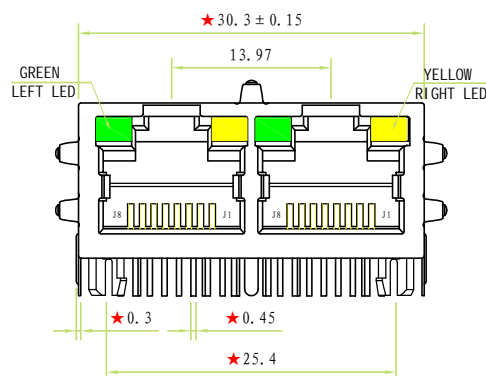
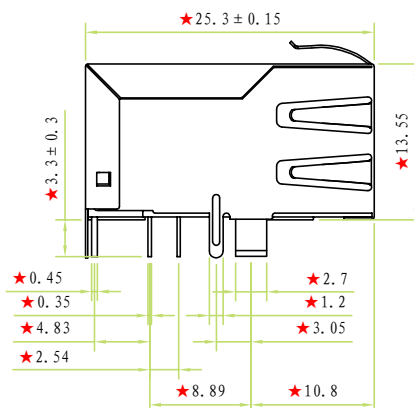
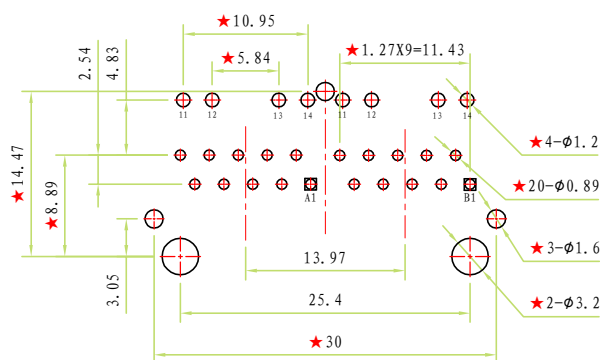


1、MECHANICAL



PC Board Layout



ORDER INFORMATION:
SK01- 21 1 002POE NL -(Y/N)
A B C D E F

- A: IT STANDS FOR THE DIFFERENT RJ45 DESIGNING OF COMPANY , SUCH AS "SK" STANDS FOR COMPANY BUT "XX" STANDS FOR THE SERIES NUMBER OF DIFFERENT PRODUCTS.
B: THE PARTS ARE SINGLE OR MULTI-PORTS: SUCH AS SK01-11XXXX , IT MEANS 1X1 SINGLE PORT, SK01-21XXXX,MEANS 2X1 OR 1X2,IT IS A DUAL PORTS RJ45 FILTERED CONNECTOR,"G" THE MEAN IS 1000BASE REQUIREMENT,
C: TELLS IT IS A LEDS VERSION OR NOT, "1" MEANS WITH LEDS,"0"OR ELSE IS WITHOUT LEDS,
D: IT STANDS FOR THE PARTS'S SERIES NO,
E: NL=ROHS COMPLAINT.
F: CONTACT PLATING CODE: NORMAL TYPE IS NO MARK , IT STANDS THANDS THE CONTACT AREA OF CONTAC PIN IS 6U" GOID PIATNG.MORE THAN 6U" NEED MARK 15 OR 30 OR 50.ETC.

REVISIONS

REV.	DESCRIPTION	ECN NO.	DATE
A	FIRST RELEASE		2011.05.27



GENERAL SPCEFICATION

DESCRIPTION

- ◆10/100 BASE-TX RJ45 1X2 TAB-UP WITH LEDS
- INTEGRATED MAGNETICS CONNECTOR ICM.

FEATURES AND BENEFITS

- ◆ROHS PEAK WAVE SOLDER TEMPERATURE RATING 260° C.
- ◆RJ45 1X2 10-PIN WITH INTERNAL MAGNETIC;
- ◆SUITABLE FOR CAT5 AND CAT6 FAST ETHERNET CABLE OR BETTER UTP.
- ◆INTERNAL MANETICS: 100%ELECTRONICALLY TESTED FOR HI POT AND FUNCTIONALITY.

ELECTRICAL PERFORMANCE SUMMARY

- ◆MEETS IEEE802.3 SPECIFICATION AND 350uH MINIMUM OCL WITH 8mA BIAS CURRENT.
- ◆HIGH PERFORMANCE FOR MAXIMUM EMI SUPPRESSION.

TEMPERATURE PERFORMANCE

- ◆STORAGE TEMPERATURE RANGE: -25° C TO +85° C.
- ◆OPERATION TEMPERATURE RANGE: 0° C TO +70° C.

MATERIAL SPECIFICATION

- ◆SHIELD: BRASS, 0.2mm THICKNESS WITH NICKEL PLATED.
- ◆PLASTIC: HOUSING, PBT/PA6T.
- ◆SOLDERING MATERIAL: 99.3%Sn0.3%Cu.
- ◆CONTACT: PHOSPHOR BRONZE, 0.35mm THICKNESS, HARD GOLD PLATED OVER TIN GOLD PLATING:

< 3 μ "INCH ☐ 3 μ "INCH ☐ 6 μ "INCH ☒
15 μ "INCH ☐ 30 μ "INCH ☐ 50 μ "INCH ☐

dimension	TOLERANCE RATE		
	A	B	C
0 ~ 4	0.05	0.10	0.20
4 ~ 16	0.08	0.15	0.30
16 ~ 64	0.12	0.25	0.50
64 ~ 250	0.25	0.40	0.80



SAK ELECTRONICS CO., LTD

TITLE: 10/100 BASE-TX 1X2
TAB-UP RJ45 WITH LED

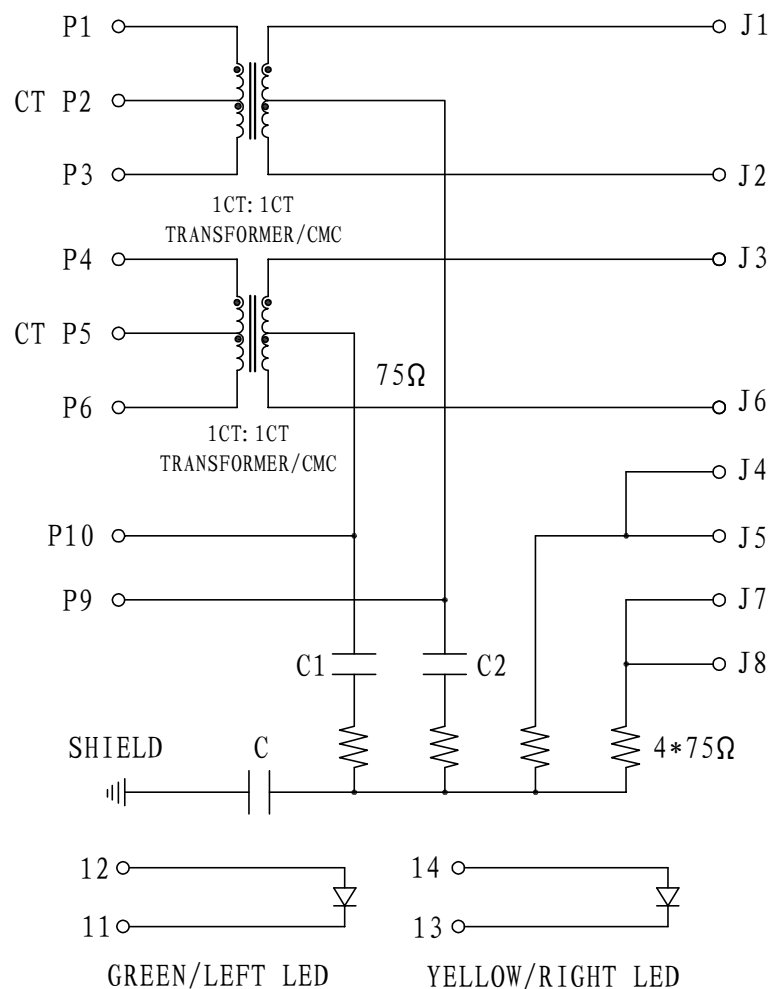
APPROVALS

APPROVALS	Date	Page
DRAWN BY: LongZou	2011.05.27	1
PROJ. ENG: Li Zi Biao	2011.05.27	1
APPROVED BY: SkyGuo	2011.05.27	1
		2
		2

PART NO:
SK01-211002POENL

REV: A
CSAK-0193

2、ELECTRONICAL



ELECTRICAL SPECIFICATIONS



◆ ALL TEST CONDITIONS @ 25°C UNLESS OTHERWISE NOTED.

◆ TURN RATIO:

TX, SECONDARY : PRIMARY = 1CT:1CT ± 3%.

RX, SECONDARY : PRIMARY = 1CT:1CT ± 3%.

◆ OCL: 350uH MIN, 8mA DC BIAS CURRENT.

◆ INSERTION LOSS: 1-100MHZ -1.0dB MAX.

◆ RETURN LOSS: 1MHZ TO 10MHZ : -18dB MIN.

10MHZ TO 30MHZ : -16dB MIN.

30MHZ TO 60MHZ : -14dB MIN.

60MHZ TO 80MHZ : -12dB MIN.

80MHZ TO 100MHZ : -10dB MIN.

◆ CROSSTALK: 1MHZ TO 100MHZ : -35dB MIN.

◆ COMMON MODE REJECTION: 1-100MHZ : -35dB MIN.

◆ HIPOT: 1500V AC 1mA 1S.

◆ CAPACITOR: C=1000pF ± 25% 2KV, C1、C2=0.22uF.

◆ RESISTANCE: 75OHMS ± 20%.

◆ RESISTANCE OF COIL: 1.8OHMS MAX, 0.25OHMS MIN.

◆ LEFT LED COLOR: GREEN; RIGHT LED COLOR: YELLOW.

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SAK ELECTRONICS CO., LTD

TITLE: 10/100 BASE-TX 1X2
TAB-UP RJ45 WITH LED

APPROVALS

APPROVALS	Date	Page
DRAWN BY: LongZou	2011.05.27	2
PROJ. ENG: Li Zi Biao	2011.05.27	
APPROVED BY: SkyGuo	2011.05.27	
		Total
		2

PART NO:

SK01-211002POENL

REV: A

DWG NO:

CSAK-0193