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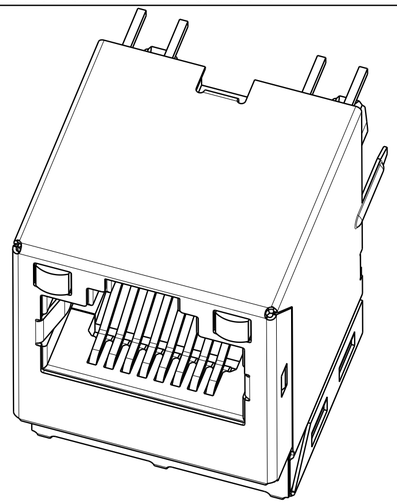
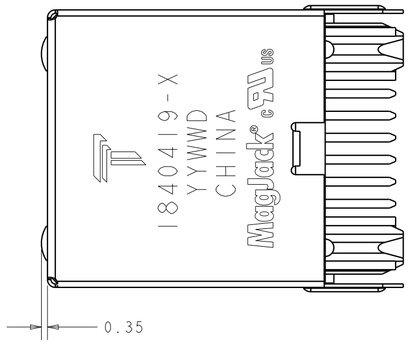
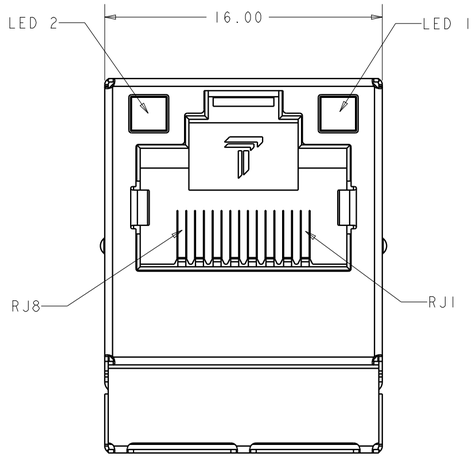
PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
5736910 5939955 6425781 6428361 6554638 6840817 7123117
7429195 7717749 7808751 6217391 6149050 7924130

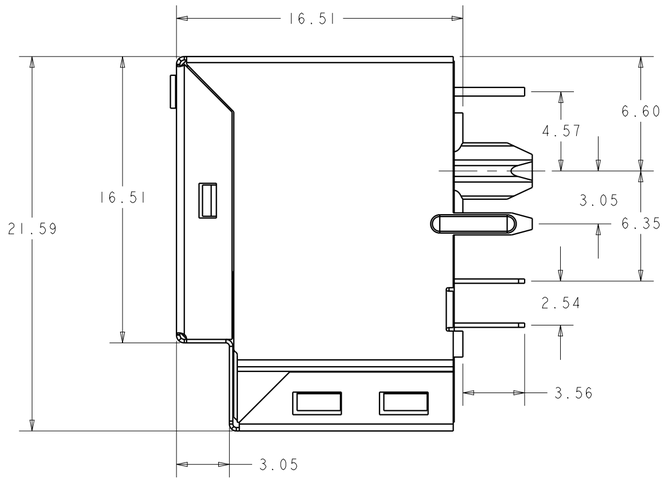
REVISIONS

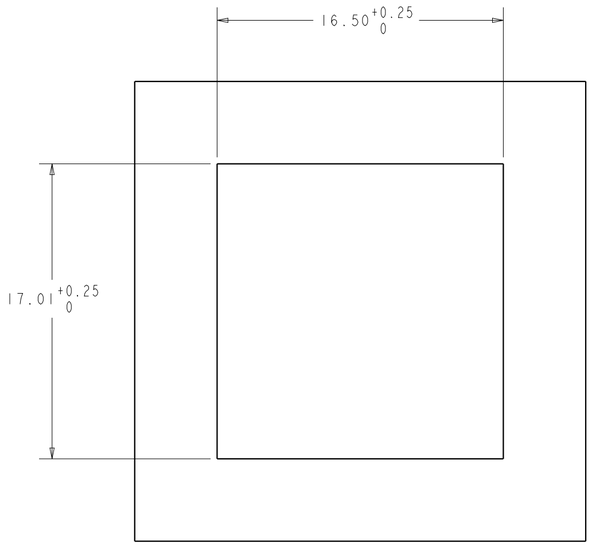
P	LTR	DESCRIPTION	DATE	DWN	APVD
	G	EC-1411035, LOGO CHANGE	22DEC2014	JC	TY

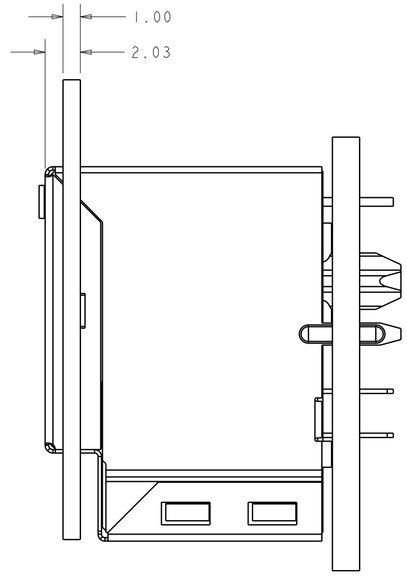












1. MATERIALS
   HOUSING: THERMOPLASTIC, BLACK, FLAMMABILITY RATED UL 94V-0
   SHIELD: BRASS, 0.20mm THICK,
   PREPLATED WITH MIN 0.76um SEMI-BRIGHT NICKEL
   POST DIPPED WITH 2.54um MIN SAC SOLDER AT GROUND PINS.
   CONTACTS: PHOSPHOR BRONZE, PLATED WITH 1.27um MIN OVERALL NICKEL UNDERPLATE,
   SELECTIVE 1.27um MIN GOLD AT MATING INTERFACE AND 2.54um MIN MATTE TIN ON SOLDER TAILS. OR 1.27um MIN NICKEL UNDERPLATE, WITH 0.05um GOLD PLATING OVER 0.76um MIN PALLADIUM NICKEL PLATING AT MATING INTERFACE AND 2.54um MIN MATTE TIN ON SOLDER TAILS.
   SOLDER TAIL: PHOSPHOR BRONZE,
   WITH 1.27um MIN OVERALL NICKEL UNDERPLATE AND
   PLATED WITH 2.54um MIN TIN
   LED: DIFFUSED EPOXY LENS, 0.50mm SQUARE CARBON STEEL WIREFRAME LEADS
   PREPLATED WITH 2.03um MIN SILVER OVER 1.02um MIN NICKEL
   OVER 1.02um MIN COPPER UNDERPLATE POST PLATED WITH 2.54um MIN TIN

△2 MAGNETICS
- APPLICATION: 10/100 BASE-T
- IMPEDANCE: 100 OHMS
- TURNS RATIO (CHIP:CABLE): TX = 1:1, RX = 1:1
- OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS, 8mADC BIAS FROM 0°C TO 70°C, TX AND RX
- PERFORMANCE @ 25°C:
  INSERTION LOSS (IL): 1.1dB MAX FROM 0.5MHz TO 100MHz
  RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 30MHz
  18-20LOG(f/30)dB MIN FROM 30.1MHz TO 60MHz
  12dB MIN FROM 60.1MHz TO 80MHz
  CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz
  33-20LOG(f/50)dB MIN FROM 40.1MHz TO 100MHz
  COMMON MODE REJECTION RATIO (CMRR): 30dB MIN FROM 0.5MHz TO 100MHz
- ISOLATION VOLTAGE: COMPLIES WITH IEEE802.3 2002, PARA 23.5.1.1, ITEM b.

△3 THE MAGNETIC ARE SYMMETRICAL AND SUPPORT AUTO-MDIX OPERATION.

4. OPERATING TEMPERATURE: 0 - 70°C

5. LED IS DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.

   DOMINANT WAVELENGTH(λD)
   GREEN 568nm TYP.at IF=20mA
   YELLOW 588nm TYP.at IF=20mA

   FORWARD VOLTAGE(VF):
   GREEN 2.2V TYP.at IF=20mA
   YELLOW 2.1V TYP.at IF=20mA

6. ALL DIMENSIONS TO BE NOMINAL UNLESS OTHERWISE NOTED

7. RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.

CUT OUT	LED 1	LED 2	PART NUMBER
YES	YELLOW	GREEN	1-1840419-3
NO	GRN/YEL	GRN/YEL	1840419-4
NO	YELLOW	GREEN	1840419-3
NO	GREEN	YELLOW	1840419-2
NO	GREEN	GREEN	1840419-1

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±0.25
1 PLC ±0.25
2 PLC ±0.25
3 PLC ±0.25
4 PLC ±-
ANGLES ±-

PRODUCT SPEC: 108-2100
APPLICATION SPEC: -

DWN TOMMY REN 18AUG2006
CHK KEITH ZHU 18AUG2006
APVD TEDDY XIONG 18AUG2006

trp CONNECTOR a bel group — DONGGUAN CHINA

MODEL NAME: MAGJACK SINGLE NON-PoE

DESC: 1X1,MAGJACK, VERTICAL 426P13, 10/100 CIRCUIT, W/ LEDS

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A2		C-1840419	-

CUSTOMER DRAWING | SCALE 4:1 | SHEET 1 OF 2 | REV G

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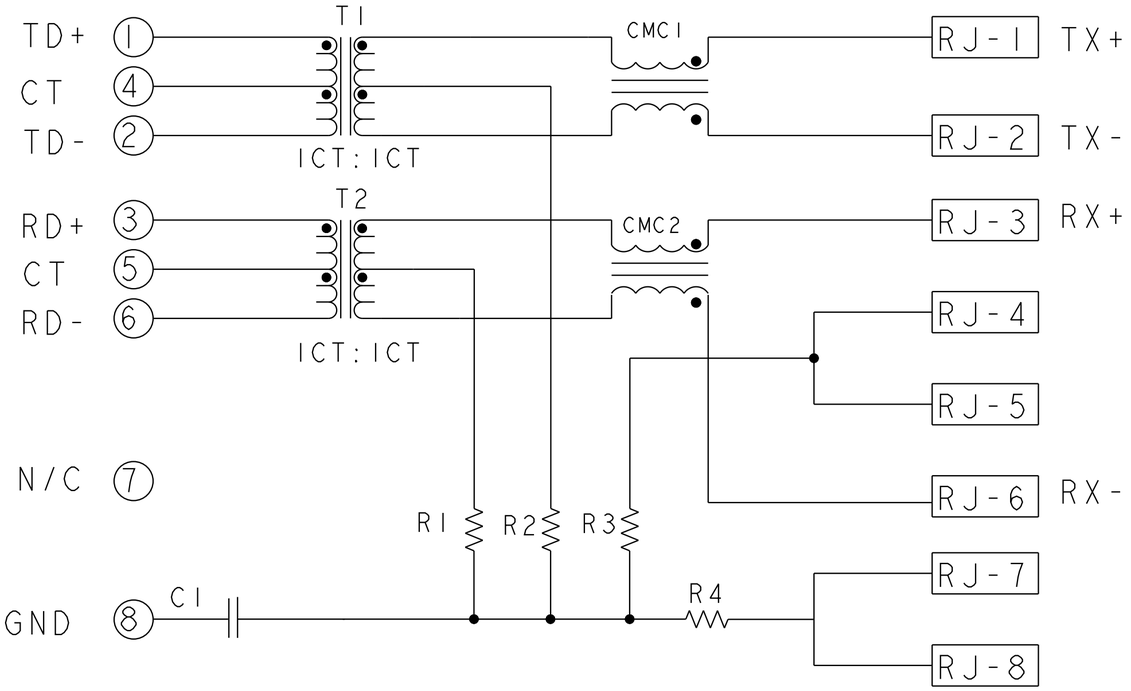
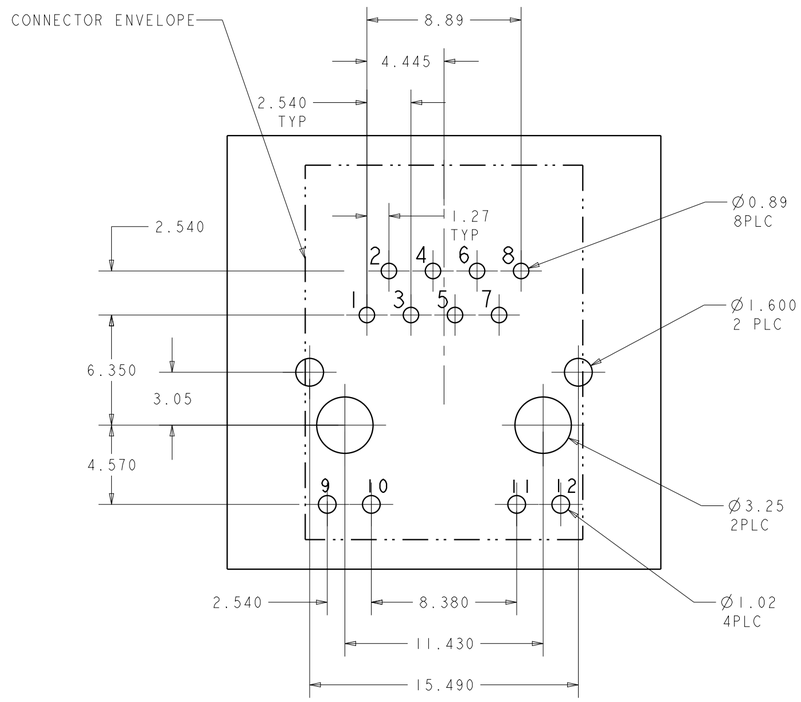
426P13 10/100 BASE-T CIRCUIT△2△3

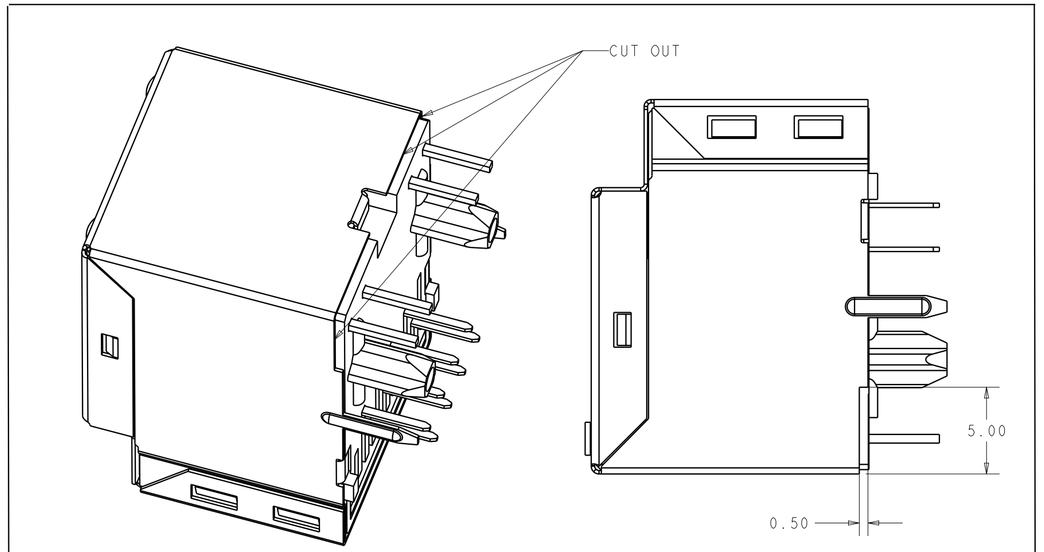


C1 = 1000pF, 2KV, CAPACITOR
R1 - R4 = 75 ohms, RESISTOR



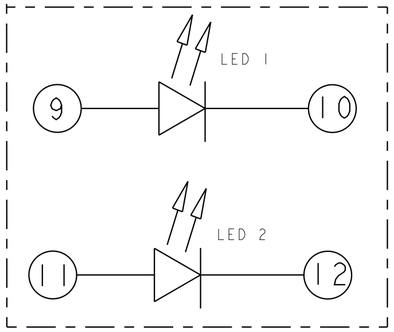
SUGGESTED PCB LAYOUT(TOL:±0.05)

(COMPONENT SIDE VIEW)

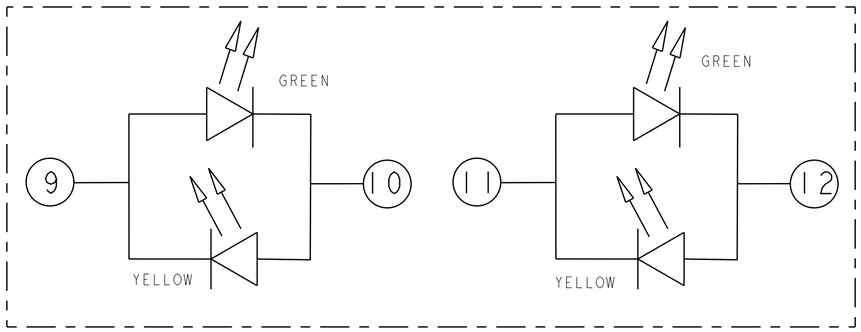


1-1840419-3

SINGLE COLOR LED



BI-COLOR LED



THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC	±0.25
1 PLC	±0.25
2 PLC	±0.25
3 PLC	±0.25
4 PLC	±-
ANGLES	±-

PRODUCT SPEC: 108-2100

APPLICATION SPEC: -

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CUSTOMER DRAWING | SCALE 4:1 | SHEET 2 OF 2 | REV G

xxxxx

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

Данный компонент на территории Российской Федерации

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http://moschip.ru/get-element

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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

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