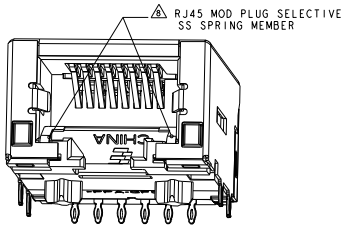
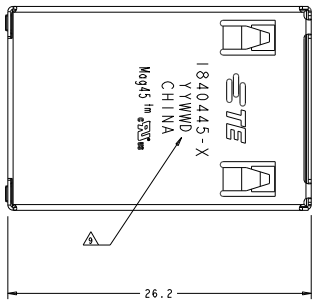
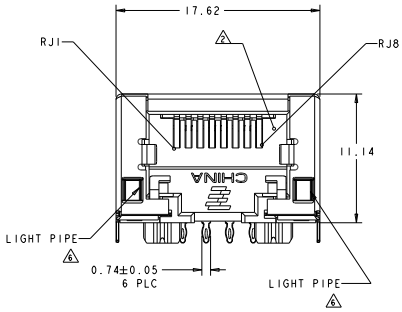
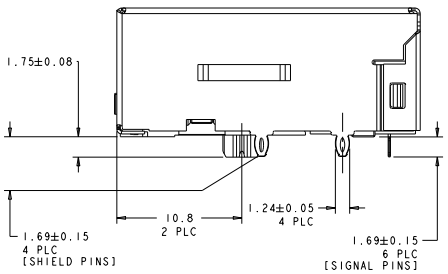
REVISIONS					
LOC	DIST	#	LTR	DESCRIPTION	DATE	DWN	APVD
AA	00		A	PER ECO-09-007142	06JAN2009	TY	KZ
			B	ECO-11-014530	10JUL2011	PP	LJ
			C	ECO-11-025111	20DEC2011	PP	KZ

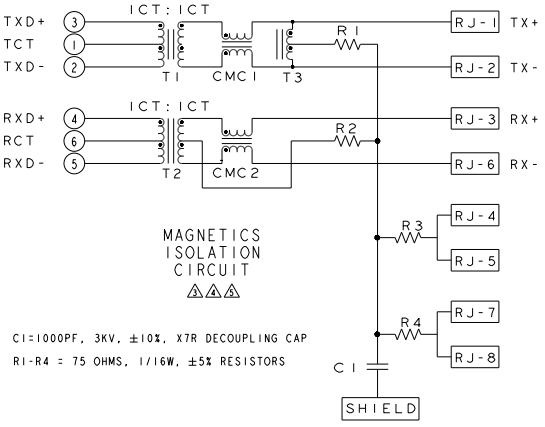








814 10/100 BASE-T CIRCUIT



C1=1000PF, 3KV, ±10%, X7R DECOUPLING CAP

R1-R4 = 75 OHMS, 1/16W, ±5% RESISTORS

1. MATERIALS:
   - HOUSING: HIGH TEMPERATURE NYLON, BLACK, UL 94V-0
   - SHIELD: 0.25mm THICK, BRASS PREPLATED WITH 0.76 µm MIN SEMI-BRIGHT NICKEL; POST-DIPPED WITH 2 µm MIN SAC 305 ALLOY LEAD FREE SOLDER (TIN PRIMARY, 3% SILVER, 0.5% COPPER)
   - CONTACT TAILS: 0.20mm THICK, PHOSPHOR BRONZE, 1.27 µm MIN OVERALL NICKEL UNDERPLATE, .3 µm MIN TIN PLATE
   - MOD JACK CONTACTS: 0.25mm THICK, PHOSPHOR BRONZE, 1.27 µm MIN OVERALL NICKEL UNDERPLATE, WITH 0.76µm MIN LOCALIZED GOLD PLATE AT PLUG INTERFACE
   - LIGHT PIPE: POLYETHER SULFONE

2. RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB-PART F.

3. MAGNETICS:
   - APPLICATION: 10/100 BASE-T
   - IMPEDANCE: 100Ω
   - TURNS RATIO (CHIP:CABLE): TX 1:1, RX: 1:1
   - OPEN CIRCUIT INDUCTANCE (OCL): 350µH (MIN) @100KHz,0.1 VRMS 8 mA DC BIAS FROM 0°C TO 70°C, TX AND RX
   - PERFORMANCE @25°C:

FREQUENCY	RETURN LOSS (dB MIN) CIRCUIT IMPEDANCE = 100 OHMS ±15%
0.5 MHz-30 MHz	18
30.1 MHz-60 MHz	18-20 log(f/30) f IS FREQUENCY IN MHz
60.1 MHz-80 MHz	12

FREQUENCY	INSERTION LOSS (dB MAX)	COMMON MODE REJECTION RATIO (dB MIN)	CROSSTALK ATTENUATION (dB MIN)
0.5 MHz-40 MHz	1.1	30	35
40.1 MHz-100 MHz			33-20log(f/50) (f IS FREQUENCY IN MHz)

   - ISOLATION VOLTAGE: COMPLIES WITH IEEE802.3.2002, PARA 23.5.1.1, ITEM a AND b.

4. THE MAGNETICS ARE ASYMMETRICAL, AND DO NOT SUPPORT AUTO-MDIX.

5. OPERATING TEMPERATURE: FROM 0°C TO +70°C.

6. LIGHT PIPES ARE USED TO TRANSMIT LIGHT OF SMD LED'S MOUNTED ON CUSTOMER BOARD.

7. ALL DIMENSIONS ARE NOMINAL UNLESS OTHERWISE NOTED.

8. RJ45 MOD PLUG SELECTIVE - THIS CONNECTOR UTILIZES STEEL SPRING MEMBER WHICH PREVENTS THE INSERTION OF A RJ11 (6 POSITION) PLUG INTO THE JACK PORT, WHILE ALLOWING A RJ45 (8 POSITION) PLUG TO MATE FREELY.

   WARNING: THIS FEATURE WAS DEVELOPED FOR TYPICAL PLUG INSERTION FORCES. EXCESSIVE INSERTION FORCE MAY OVERCOME THE SELECTIVE FEATURES AND DAMAGE THE CONNECTOR.

9. TE CONNECTIVITY LOGO,PART NUMBER,DATE CODE,COUNTRY OF ORIGIN,AGENCY APPROVAL MARKING LOGO LOCATED IN THE APPROXIMATE AREA SHOWN. DATE CODE YY IS YEAR,WW IS WORK WEEK,D IS DAY OF WEEK,WITH SUNDAY=1

10 1840445-1 SHOWN UNLESS OTHERWISE NOTED,

TOP AND SIDES	1840445-2
NONE	1840445-1
TABS	PART NO.

THIS DRAWING IS A CONTROLLED DOCUMENT.

DRN	TOMER YU	10SEP2007
CHK	KEITH ZHU	10SEP2007
APP	TEDDY XIONG	10SEP2007

UNLESS OTHERWISE SPECIFIED: DIMENSIONS: MM; TOLERANCES: 2 PLC ±.25, 3 PLC ±0.13, 4 PLC ±0.05, 5 PLC ±0.03, 6 PLC ±0.01, ANGLES ±2°; MATERIAL: ⚠; FINISH: ⚠

PRODUCT SPEC: 108-104009
APPLICATION SPEC: -
WEIGHT: -

NAME: 1X1 MAG45(TM), MODULAR JACK, PRESS FIT, 814 SERIES 10/100 CIRCUIT SHIELDED,LIGHT PIPE,W/O LED,TAB DOWN

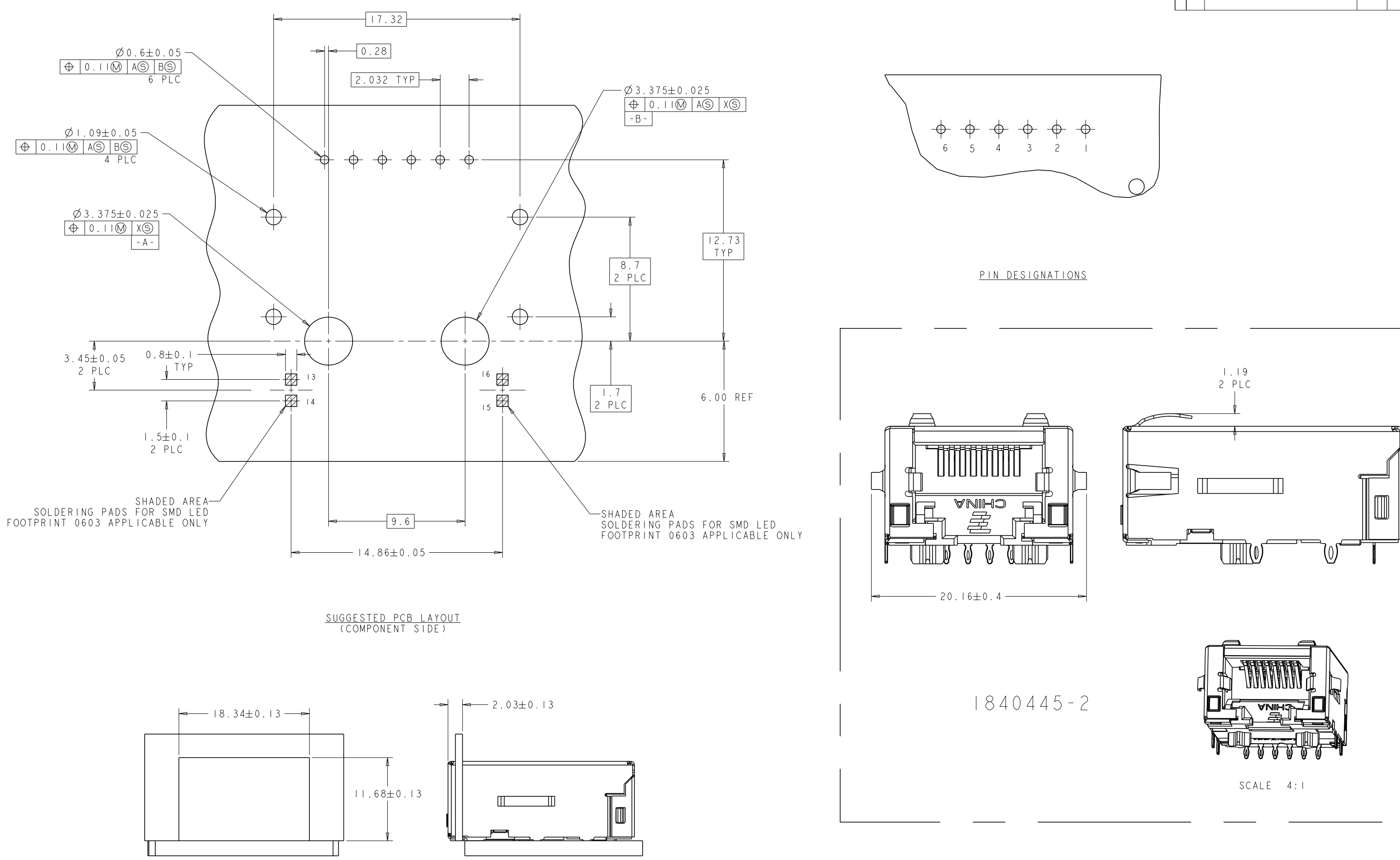
SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A	00779	C-1840445	-

CUSTOMER DRAWING | SCALE NTS | SHEET 1 OF 2 | REV C

LOC	DIST
AA	00

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-



THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

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

MATERIAL - -
FINISH - -

DWN TOWER YU 10SEP2007
CHK KEITH ZHU 10SEP2007
APVD TEDDY XIONG 10SEP2007
PRODUCT SPEC 108-104009
APPLICATION SPEC -
WEIGHT -

TE Connectivity

NAME: 1X1 MAG45(TM), MODULAR JACK, PRESS FIT, 814 SERIES 10/100 CIRCUIT SHIELDED,LIGHT PIPE,W/O LED,TAB DOWN

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-1840445	-

CUSTOMER DRAWING — SCALE NTS — SHEET 2 OF 2 — REV C

AMP 4805 REV 31MAR2000