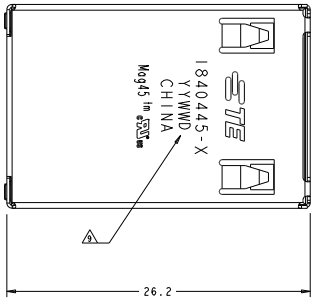
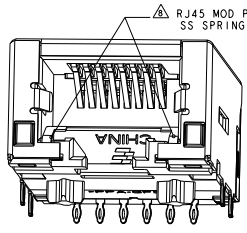


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TE CONNECTIVITY CORPORATION
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REV	DATE	REVISIONS	BY	CHK	APP
A	FEB ECU-09-007142		ALBERTO	TY	KZ
B	ECO-11-014630		ALBERTO	EP	LJ
C	ECO-11-025111		ALBERTO	EP	KZ



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 (1% 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 0.76 μm MIN LOCALIZED GOLD PLATE AT PLUG INTERFACE
 -LIGHT PIPE: POLYETHER SULFONE

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:

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

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			35
40.1 MHz-100 MHz	1.1	30	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.

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

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

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

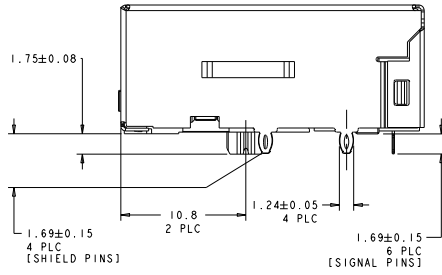
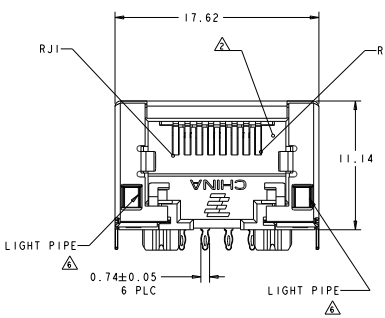
ALL DIMENSIONS ARE NOMINAL UNLESS OTHERWISE NOTED.

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.

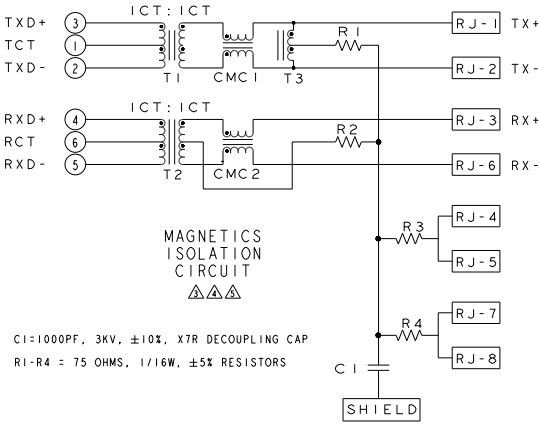
WARNING: THIS FEATURE WAS DEVELOPED FOR TYPICAL PLUG INSERTION FORCES. EXCESSIVE INSERTION FORCE MAY OVERCOME THE SELECTIVE FEATURES AND DAMAGE THE CONNECTOR.

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.



814 10/100 BASE-T CIRCUIT



MAGNETICS ISOLATION CIRCUIT

C1=1000PF, 3KV, ±10%, X7R DECOUPLING CAP
 R1-R4 = 75 OHMS, 1/16W, ±5% RESISTORS

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

THIS DRAWING IS A CONTROLLER DOCUMENT		DRAWING NO. 135EP2007			
REV. 00		DATE 11/09/07			
DESCRIPTION: 814 10/100 BASE-T		PART NO. 1840445-1			
MATERIAL: NYLON, BRASS, PHOSPHOR BRONZE, TIN, SILVER, COPPER, SOLDER, NICKEL, GOLD, POLYETHER SULFONE		SPECIFICATION: IEC 60320-1, IEC 60320-2, IEC 60320-3, IEC 60320-4, IEC 60320-5, IEC 60320-6, IEC 60320-7, IEC 60320-8, IEC 60320-9, IEC 60320-10, IEC 60320-11, IEC 60320-12, IEC 60320-13, IEC 60320-14, IEC 60320-15, IEC 60320-16, IEC 60320-17, IEC 60320-18, IEC 60320-19, IEC 60320-20, IEC 60320-21, IEC 60320-22, IEC 60320-23, IEC 60320-24, IEC 60320-25, IEC 60320-26, IEC 60320-27, IEC 60320-28, IEC 60320-29, IEC 60320-30, IEC 60320-31, IEC 60320-32, IEC 60320-33, IEC 60320-34, IEC 60320-35, IEC 60320-36, IEC 60320-37, IEC 60320-38, IEC 60320-39, IEC 60320-40, IEC 60320-41, IEC 60320-42, IEC 60320-43, IEC 60320-44, IEC 60320-45, IEC 60320-46, IEC 60320-47, IEC 60320-48, IEC 60320-49, IEC 60320-50, IEC 60320-51, IEC 60320-52, IEC 60320-53, IEC 60320-54, IEC 60320-55, IEC 60320-56, IEC 60320-57, IEC 60320-58, IEC 60320-59, IEC 60320-60, IEC 60320-61, IEC 60320-62, IEC 60320-63, IEC 60320-64, IEC 60320-65, IEC 60320-66, IEC 60320-67, IEC 60320-68, IEC 60320-69, IEC 60320-70, IEC 60320-71, IEC 60320-72, IEC 60320-73, IEC 60320-74, IEC 60320-75, IEC 60320-76, IEC 60320-77, IEC 60320-78, IEC 60320-79, IEC 60320-80, IEC 60320-81, IEC 60320-82, IEC 60320-83, IEC 60320-84, IEC 60320-85, IEC 60320-86, IEC 60320-87, IEC 60320-88, IEC 60320-89, IEC 60320-90, IEC 60320-91, IEC 60320-92, IEC 60320-93, IEC 60320-94, IEC 60320-95, IEC 60320-96, IEC 60320-97, IEC 60320-98, IEC 60320-99, IEC 60320-100		DRAWING NO. 135EP2007	
DATE: 11/09/07		DATE: 11/09/07			
DRAWN BY: ALBERTO		DRAWN BY: ALBERTO			
CHECKED BY: TY		CHECKED BY: TY			
APPROVED BY: KZ		APPROVED BY: KZ			
CUSTOMER DRAWING		CUSTOMER DRAWING			

