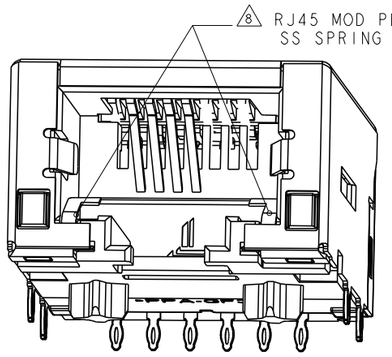
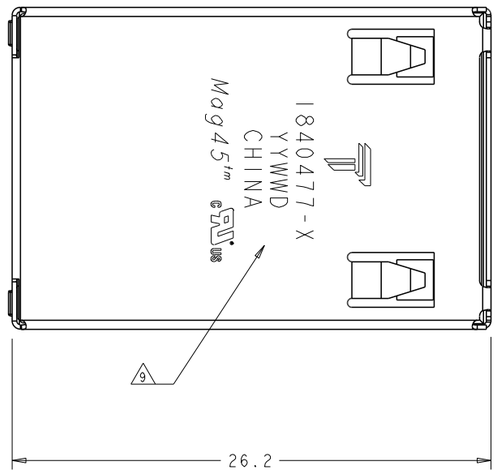
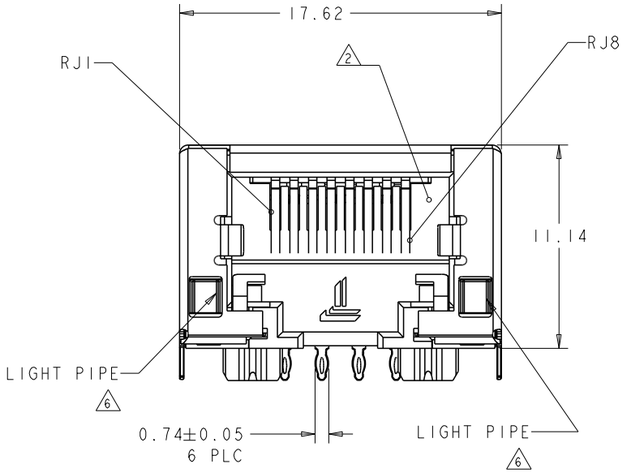
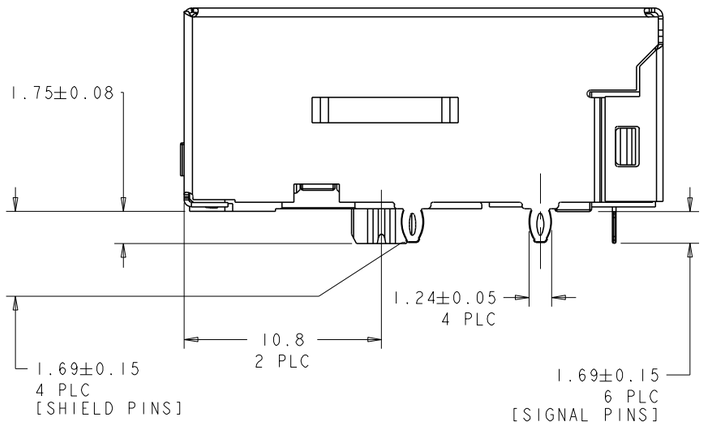
REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	2	LOGO CHANGE	25APR2013	TY	KZ

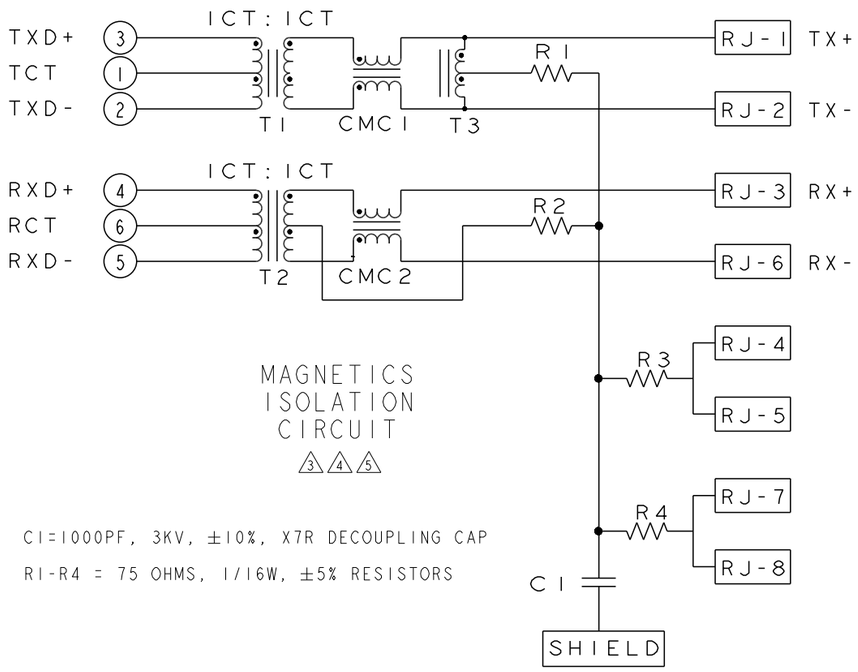








814ET 10/100 BASE-T CIRCUIT



MAGNETICS
ISOLATION
CIRCUIT
3 4 5

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

R1-R4 = 75 OHMS, 1/16W, ±5% RESISTORS

1. MATERIALS:
   - HOUSING: HIGH TEMPERATURE NYLON, BLACK, UL 94V-O
   - 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, EXTENDED TEMPERATURE
   - IMPEDANCE: 100 Ω
   - TURNS RATIO (CHIP:CABLE): TX = 1:1, RX = 1:1
   - OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS, 8mADC BIAS FROM -40°C TO +85°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: 2250VDC (MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC)

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

5. OPERATING TEMPERATURE: FROM -40°C TO +85°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. TRADEMARK,PART NUMBER, DATE CODE, COUNTRY OF ORIGIN, AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN

10. 1840477-1 SHOWN UNLESS OTHERWISE NOTED,

11. THESE PARTS ARE COMPLIANT WITH IR REFLOW SOLDERING PROCESS PEAK SOLDERING TEMPERATURE 260°C MAX DURATION TIME 10 SECONDS MAX, OVER 230°C WTIHIN 40-60 SECONDS

TOP AND SIDES	1840477-2
NONE	1840477-1
TABS	PART NO.

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 ±-
7

MATERIAL : 1

FINISH - - 1

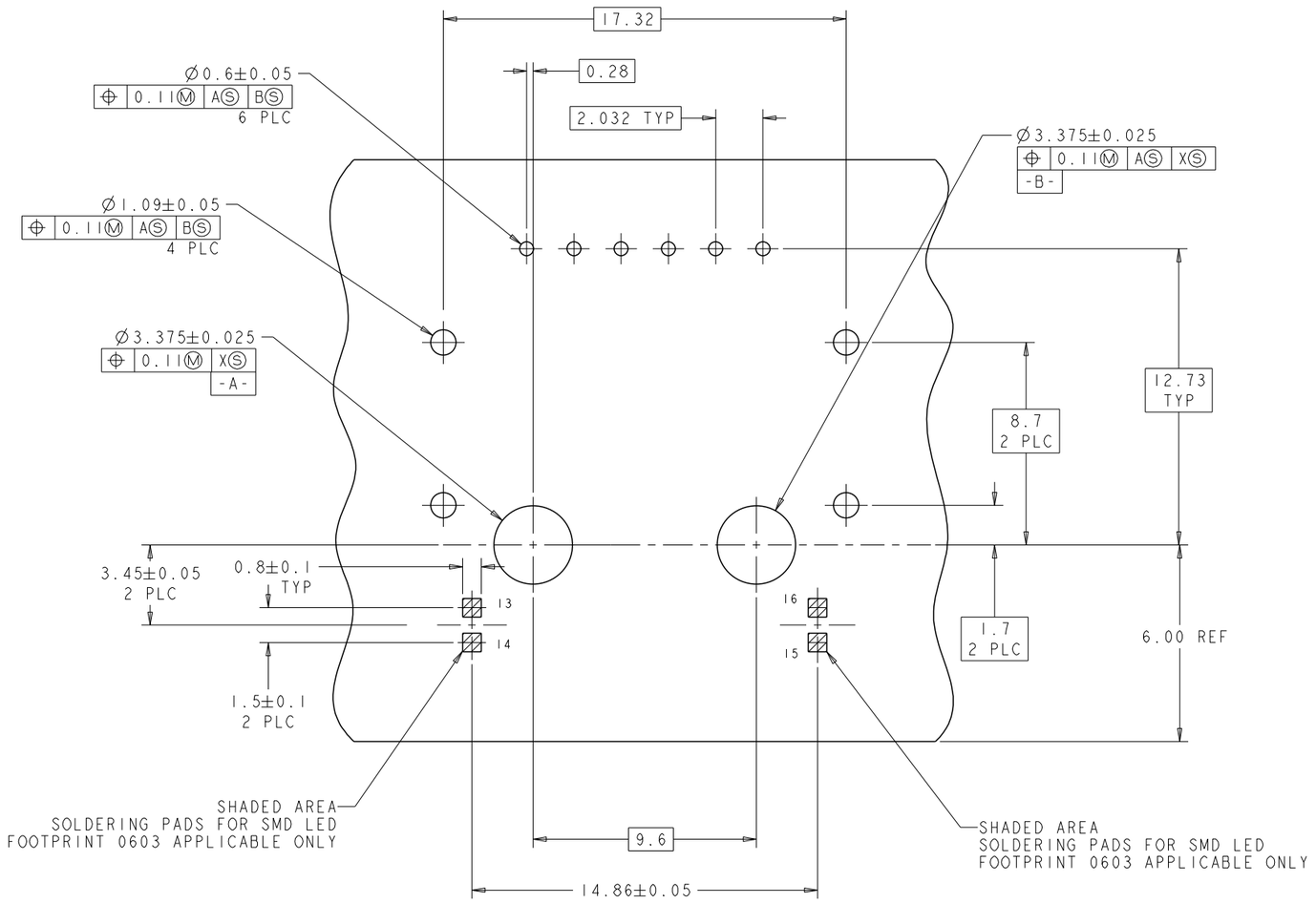
DWN TOWER YU 09MAR2009
CHK DENNIS CHEN 09MAR2009
APVD KEITH ZHU 09MAR2009
PRODUCT SPEC 108-104009
APPLICATION SPEC -
WEIGHT -

TRP connector
Dongguan China

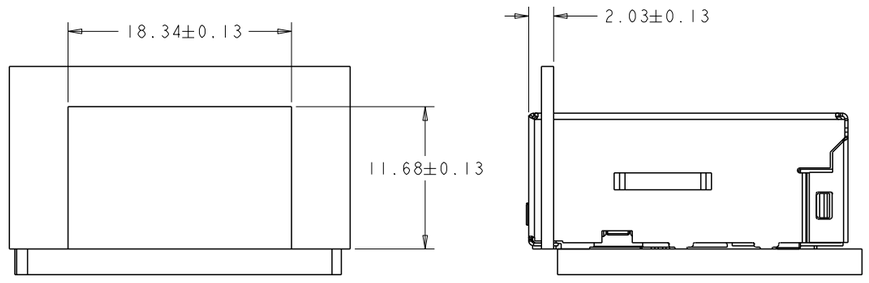
NAME 1X1 MAG45(TM), MODULAR JACK, PRESS FIT, 814ET 10/100 CIRCUIT

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1		© 1840477	-

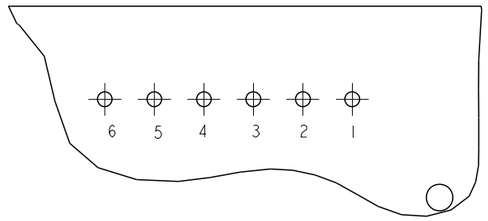
CUSTOMER DRAWING | SCALE NTS | SHEET 1 OF 2 | REV 2



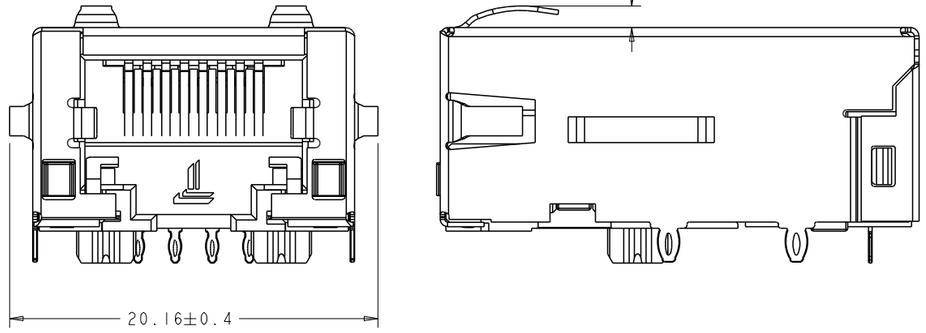
SUGGESTED PCB LAYOUT
(COMPONENT SIDE)



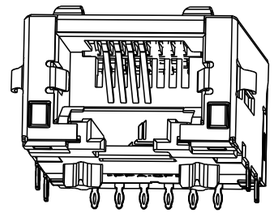
SUGGESTED PANEL OPENING



PIN DESIGNATIONS



1840477-2



SCALE 4:1

THIS DRAWING IS A CONTROLLED DOCUMENT.	DWN TOWER YU 09MAR2009	TRP connector	TRP connector Dongguan China
DIMENSIONS: mm	CHK DENNIS CHEN 09MAR2009		
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±- 4 PLC ±- ANGLES ±-	APVD KEITH ZHU 09MAR2009		
MATERIAL - -	PRODUCT SPEC 108-104009	NAME 1X1 MAG45(TM), MODULAR JACK, PRESS FIT, 814ET 10/100 CIRCUIT	
FINISH - -	APPLICATION SPEC -	SIZE A1	CAGE CODE
	WEIGHT -	DRAWING NO C-1840477	RESTRICTED TO -
	CUSTOMER DRAWING	SCALE NTS	SHEET 2 OF 2 REV 2