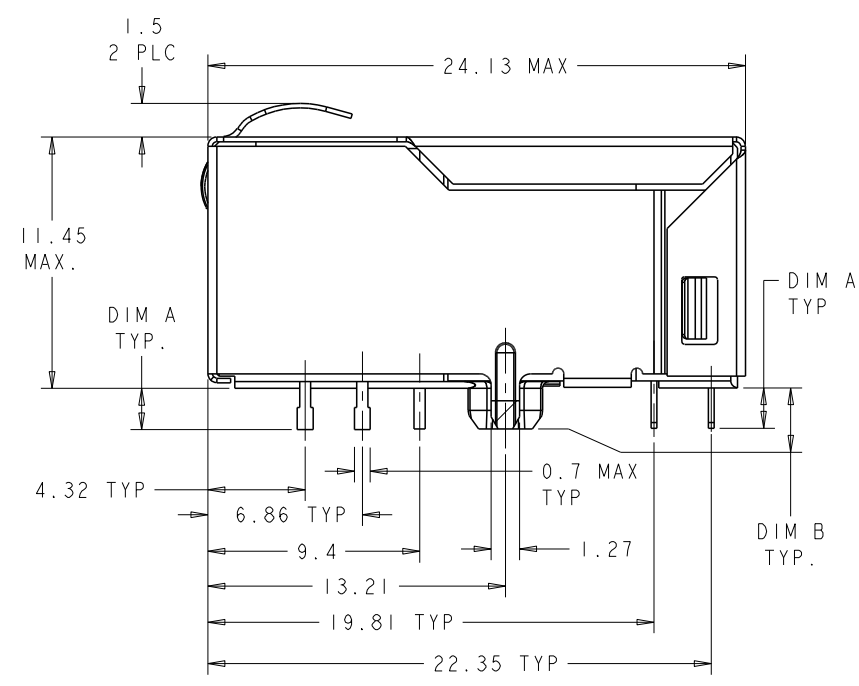
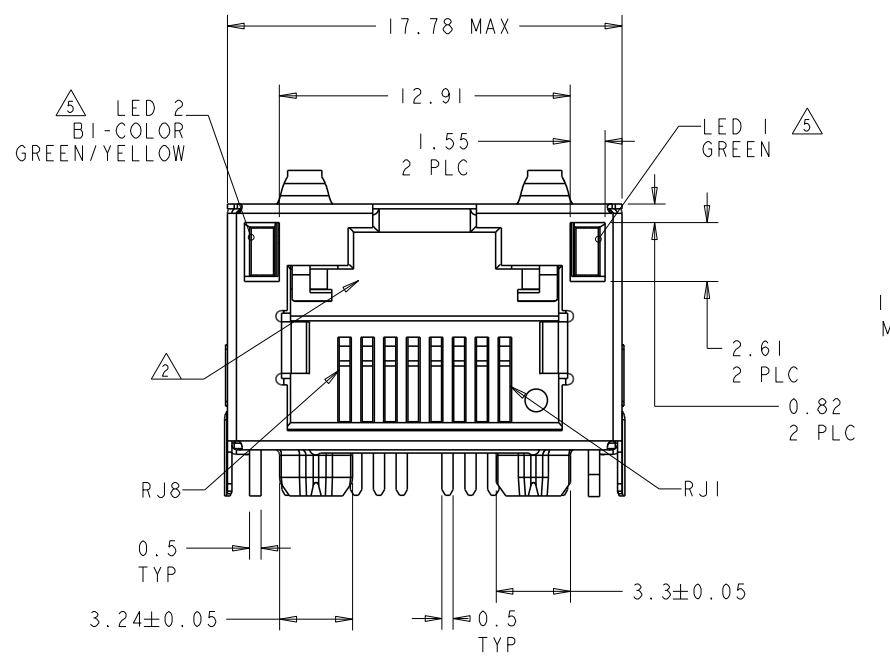
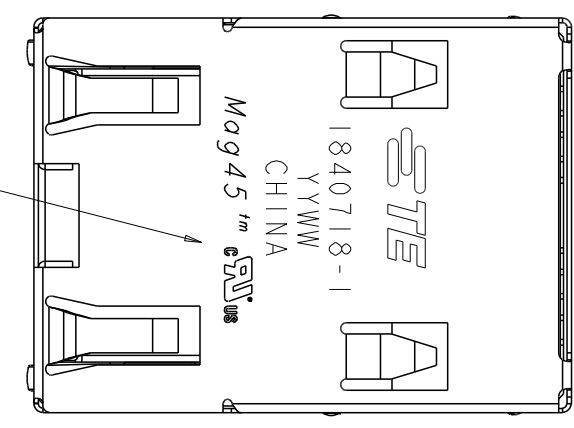
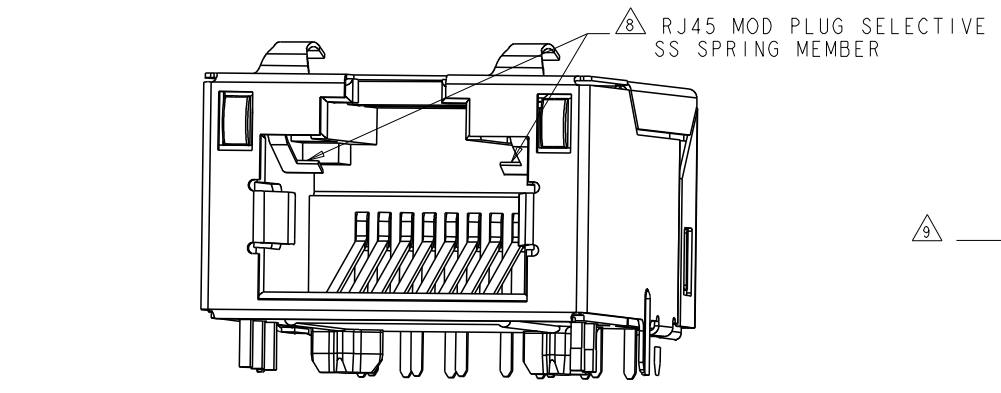


LOC		DIST		REVISIONS			
AA	00	P	LYR	DESCRIPTION	DATE	DWN	APPD
		J		PER ECO-12-015694	17DEC2012	TY	KZ



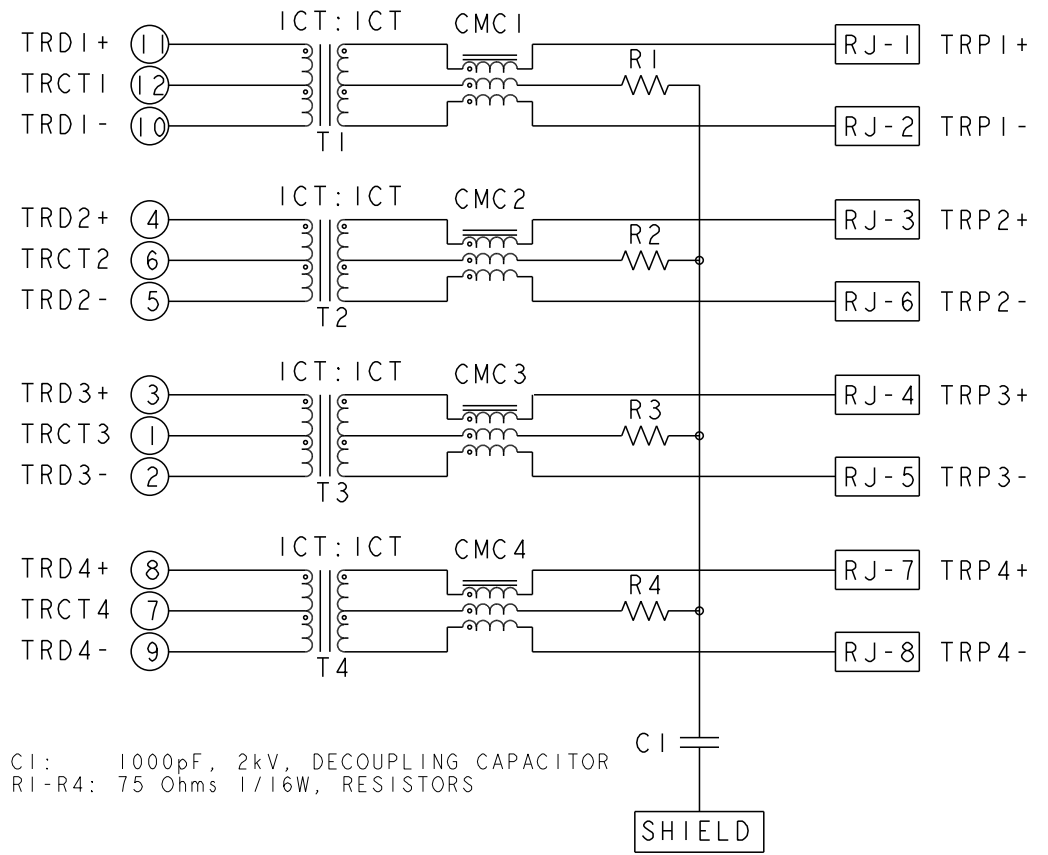
- 1 MATERIALS:
 -HOUSING: HIGH TEMPERATURE NYLON, BLACK, UL 94V-0
 -SHIELD: 0.20mm THICK, BRASS PREPLATED WITH 0.76 um MIN SEMI-BRIGHT NICKEL; POST-DIPPED WITH 2um MIN SAC 305 ALLOY LEAD FREE SOLDER (TIN PRIMARY, 3% SILVER, 0.5% COPPER)
 -CONTACT TAILS: 0.25mm THICK, PHOSPHOR BRONZE, 1.27 um MIN OVERALL NICKEL UNDERPLATE, 3um MIN TIN PLATE
 -MOD JACK CONTACTS: 0.25mm THICK, PHOSPHOR BRONZE, 1.27 um MIN OVERALL NICKEL UNDERPLATE, WITH 0.76um MIN LOCALIZED GOLD PLATE AT PLUG INTERFACE
 -LIGHT EMITTING DIODE (LED): DIFFUSED EPOXY LENS, 0.5mm X 0.5mm CARBON STEEL WIREFRAME LEADS PREPLATED WITH 2.03um MIN. SILVER PLATE OVER 1.02um MIN. NICKEL OVER 1.02um MIN. COPPER UNDERPLATE; LEADS POST-PLATED WITH 3.05um MIN. MATTE TIN.
 -LIGHT PIPE: POLYETHER SULFONE
- 2 RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB-PART F.
- 3 MAGNETICS:
 -APPLICATION: 10/100/1000 BASE-T
 -IMPEDANCE: 100 OHMS
 -TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
 -OPEN CIRCUIT INDUCTANCE (OCL): 350 uH (MIN) @100KHz, 0.1 VRMS WITH 8 mA DC BIAS FROM 0°C TO +70°C, ALL FOUR PAIRS
 -ALL FOUR PAIRS BI-DIRECTIONAL

FREQUENCY	INSERTION LOSS (dB MAX)	RETURN LOSS (dB MIN) CIRCUIT IMPEDANCE = 100 OHMS ±15%	COMMON MODE REJECTION RATIO (dB MIN)	CROSSTALK ATTENUATION (dB MIN)
0.5 MHz - 40.0 MHz	1.1	18.0	30	35
40.1 MHz - 100.0 MHz		12-20 log(f/80) f IS FREQUENCY IN MHz		33-20 log(f/50) f IS FREQUENCY IN MHz

ALL MAGNETIC ELECTRICAL CHARACTERISTICS RATED @ 25°C

- ISOLATION VOLTAGE: COMPLIES WITH IEEE802.3.2002, PARA 40.6.1.1, ITEM a AND b
- 4 OPERATING TEMPERATURE: FROM 0°C TO +70°C.
- 5 LED IS DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.
 LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. at IF=20mA
 FORWARD VOLTAGE (VF): GREEN 2.2V TYP. at IF=20mA
 DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. at IF=20mA
 FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. at IF=20mA
 DOMINANT WAVELENGTH (λD): ORANGE 605 nm TYP. at IF=20mA
 FORWARD VOLTAGE (VF): ORANGE 2.1V TYP. at IF=20mA
- 6 LED WILL EMULATE "YELLOW" LIGHT WHEN BOTH GREEN AND ORANGE DIODES ARE DRIVEN AT CONSTANT CURRENT (20mA RECOMMENDED) TO INDICATE THE THIRD COLOR STATE.
 WARNING: THIS FEATURE WAS DEVELOPED FOR TYPICAL PLUG INSERTION FORCES.
 EXCESSIVE INSERTION FORCE MAY OVERCOME THE SELECTIVE FEATURES AND DAMAGE THE CONNECTOR.
- 7 ALL DIMENSIONS ARE NOMINAL UNLESS OTHERWISE NOTED.
- 8 RJ45 MOD PLUG SELECTIVE - THIS CONNECTOR UTILIZES STAINLESS 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 TYCO ELECTRONICS LOGO, PART NUMBER, DATE CODE, PLACE OF ORIGIN, AGENCY LOGO TO BE MARKED IN APPROXIMATE LOCATION AS SHOWN.
- 10 APPLIES ONLY TO 1840718-3, -4, 1-1.
- 11 1840718-1 SHOWN UNLESS OTHERWISE SPECIFIED.
12. THESE PARTS ARE COMPLIANT WITH BOTH WAVE SOLDERING PROCESS PEAK SOLDERING TEMPERATURE 260°C MAX, 10 SECONDS MAX; AND IR REFLOW SOLDERING PROCESS PEAK SOLDERING TEMPERATURE 260°C MAX DURATION TIME 10 SECONDS MAX, OVER 230°C WITHIN 40-60 SECONDS;

IG18 GIGABIT CIRCUIT 3



WAVE	G/O	5/6	G/5	NO	TOP ONLY	3.3	3.18	1-1840718-2
WAVE	G/O	5/6	G/5	YES	TOP AND SIDES	3.3	3.18	1-1840718-1
WAVE	G/O	5/6	G/5	NO	NO	3.30	3.18	1-1840718-0
WAVE	G/Y	5	G/5	YES	TOP ONLY	2.35	2.35	1840718-9
WAVE	G/Y	5	G/5	YES	TOP ONLY	3.3	3.18	1840718-8
WAVE	G/O	5/6	Y/5	YES	TOP ONLY	3.3	3.18	1840718-7
WAVE	G/O	5/6	Y/5	NO	NO	3.3	3.18	1840718-6
REFLOW	G/O	5/6	Y/5	YES	NO	1.8	1.8	1840718-5
WAVE	G/O	5/6	Y/5	YES	TOP AND SIDES	3.3	3.18	1840718-4
REFLOW	G/O	5/6	Y/5	YES	TOP AND SIDES	1.8	1.8	1840718-3
REFLOW	G/O	5/6	Y/5	YES	TOP ONLY	1.8	1.8	1840718-2
REFLOW	G/Y	5	G/5	YES	TOP ONLY	1.8	1.8	1840718-1
SOLDER PROCESS	LED 2	LED 1	RJ11 SELECTIVE CAPABILITY	GROUND TABS	DIM B	DIM A	PART NO.	

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	±0.25	

ANGLES: ±0.5°

MATERIAL: 1

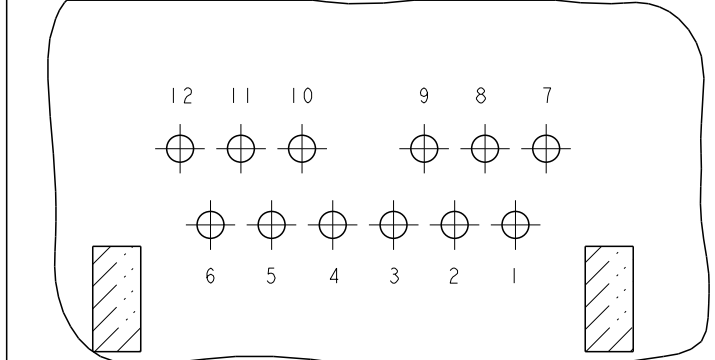
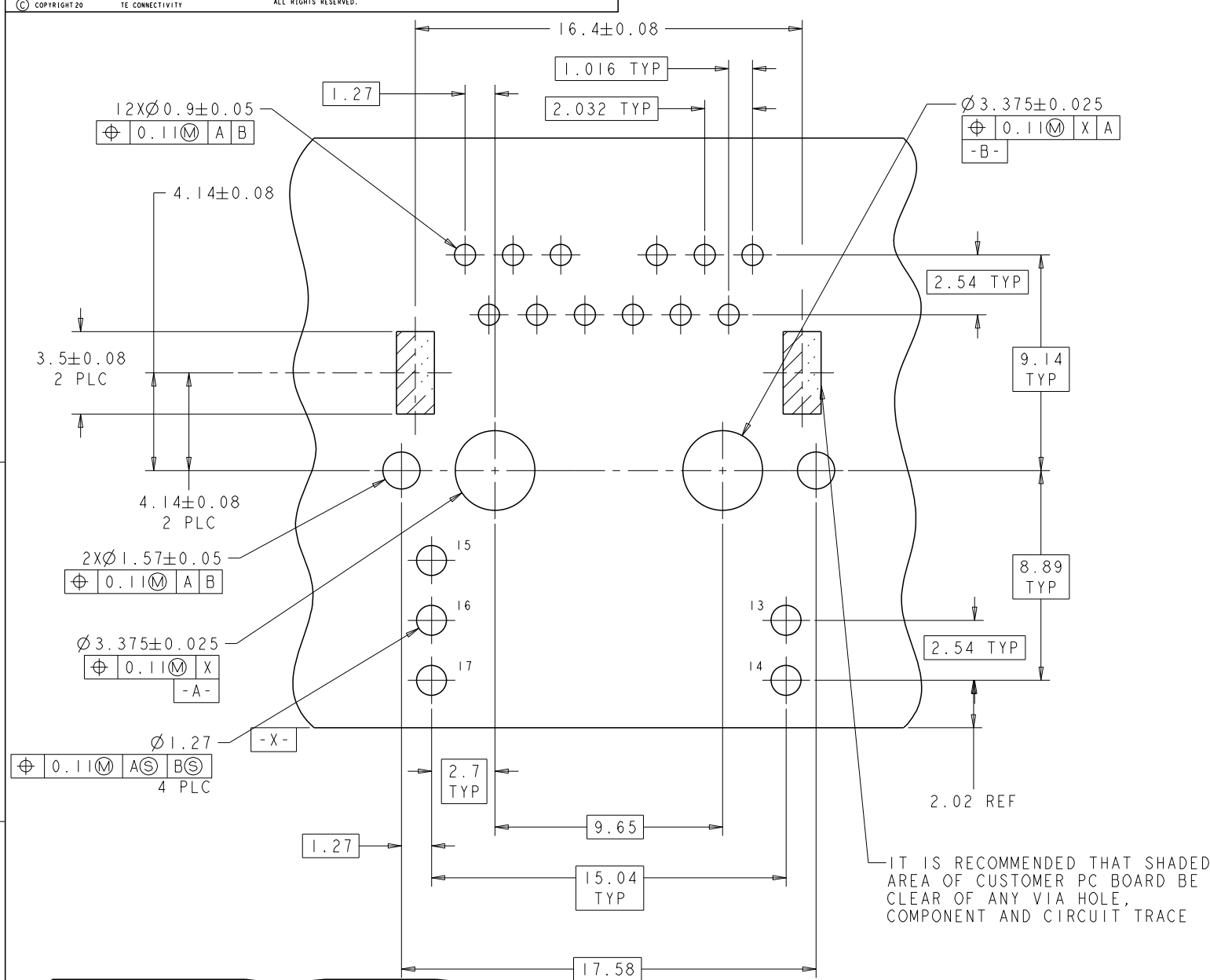
FINISH: 1

OWN: TOWER YU 21APR2006
 CHG: KEITH ZHU 21APR2006
 APD: TEDDY XLONG 21APR2006

NAME: IXI MAG45(TM), MODULAR JACK, IG18 SERIES GIGABIT CIRCUIT SHIELDED, LEDS, SELECTIVE CAPABILITY

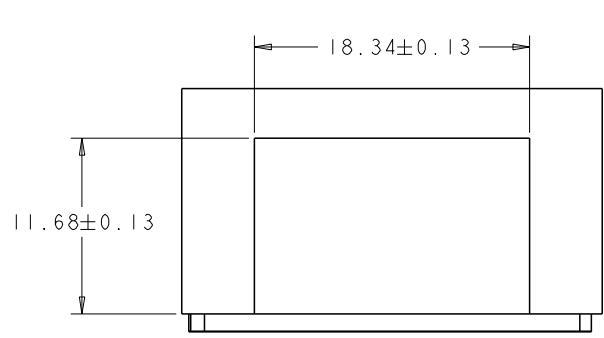
SIZE: A1
 CAGE CODE: 100779
 DRAWING NO: 1840718
 RESTRICTED TO: J

SCALE: NTS
 SHEET: 1 OF 2
 REV: J



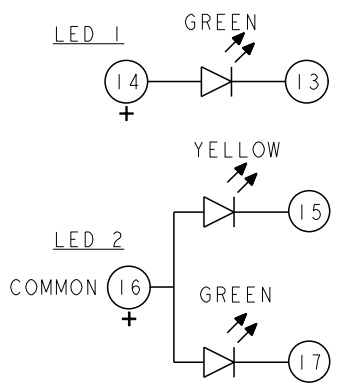
SUGGESTED PCB LAYOUT (COMPONENT SIDE)

PIN DESIGNATIONS



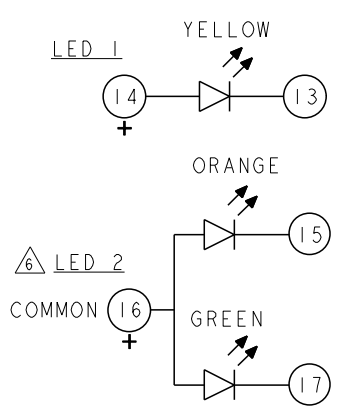
SUGGESTED PANEL OPENING

IT IS RECOMMENDED THAT SHADED AREA OF CUSTOMER PC BOARD BE CLEAR OF ANY VIA HOLE, COMPONENT AND CIRCUIT TRACE



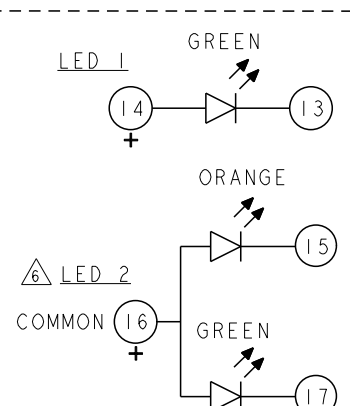
LED LEADS LAYOUT FOR

- 1840718-1
- 1840718-8
- 1840718-9



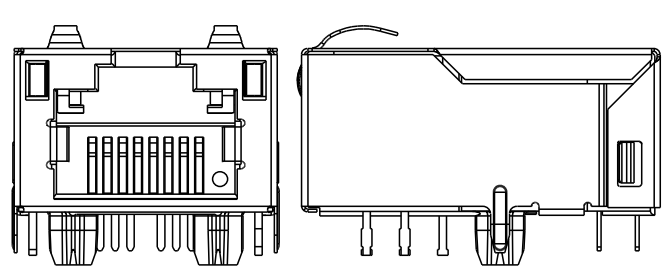
LED LEADS LAYOUT FOR

- 1840718-2
- 1840718-3
- 1840718-4
- 1840718-5
- 1840718-6
- 1840718-7



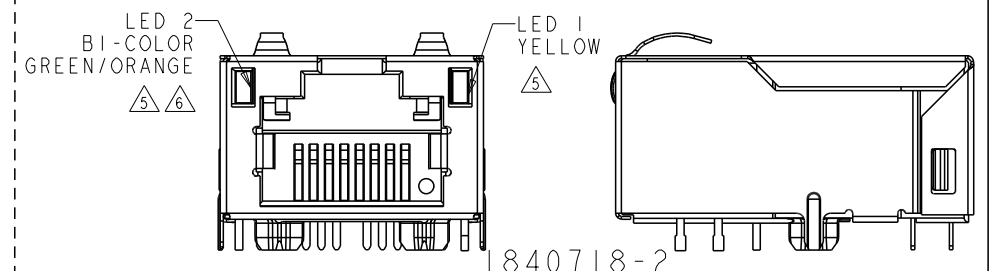
LED LEADS LAYOUT FOR

- 1-1840718-0
- 1-1840781-1
- 1-1840781-2

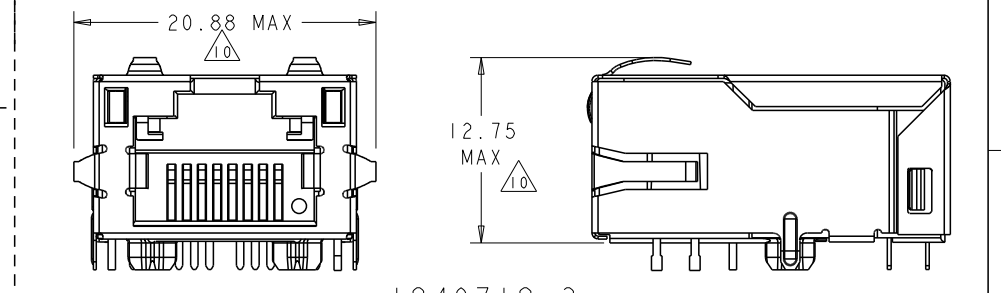


1840718-9

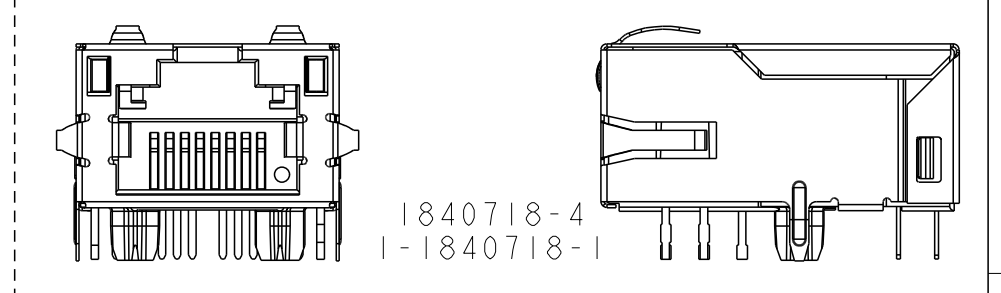
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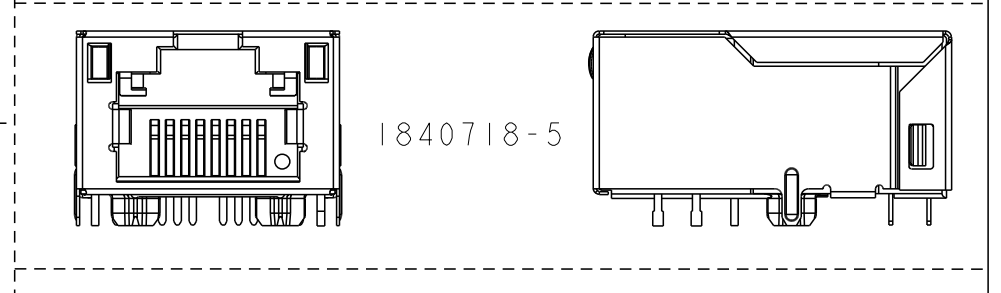
1840718-2



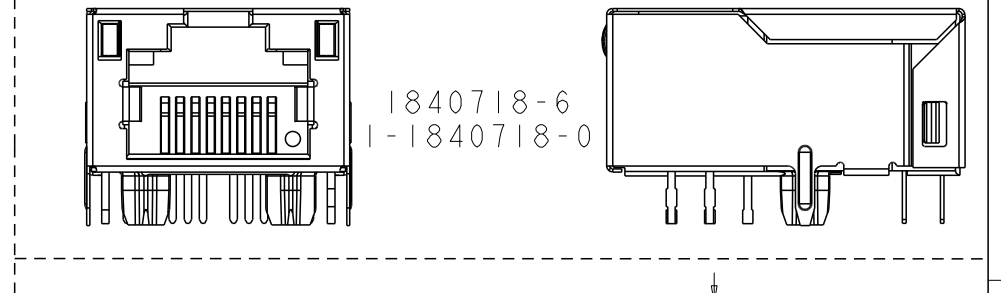
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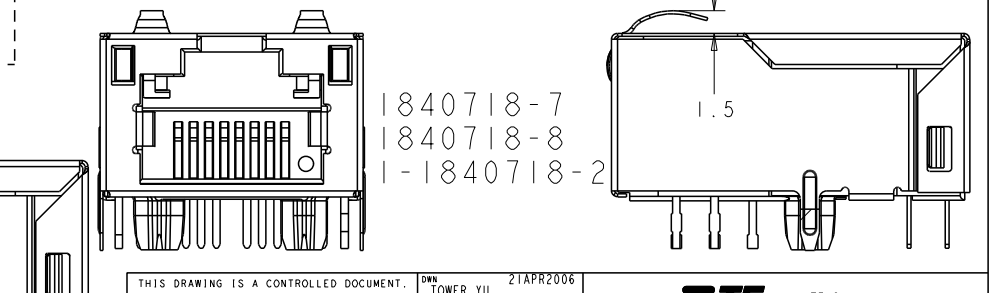
1840718-4
1-1840718-1



1840718-5



1840718-6
1-1840718-0



1840718-7
1840718-8
1-1840718-2

DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		MATERIAL:		FINISH:		WEIGHT:		SCALE:	
mm		mm									
0 PLC	±0.25	1 PLC	±0.25								
2 PLC	±0.25	3 PLC	±0.25								
4 PLC	±0.25	ANGLES	±								

OWN	TOWER YU	21APR2006	NAME	IXI MAG45(TM), MODULAR JACK, IG18 SERIES GIGABIT CIRCUIT SHIELDED, LEDS, SELECTIVE CAPABILITY
CHK	WELTH ZHU	21APR2006	SIZE	A1
APPD	TEDDY XILONG	21APR2006	CAGE CODE	100779
PRODUCT SPEC	108-2207	APPLICATION SPEC	DRAWING NO	C=1840718
CUSTOMER DRAWING		SHEET		2 OF 2