

1. MATERIALS:  
-HOUSING: HIGH TEMPERATURE NYLON, BLACK, UL 94V-0  
-SHIELD: 0.20mm THICK, BRASS PREPLATED WITH 1.27μm MIN SEMI-BRIGHT NICKEL; POST-DIPPED WITH 2μm MIN SAC ALLOY LEAD FREE SOLDER  
-CONTACT TAILS: 0.25mm THICK, PHOSPHOR BRONZE, 1.27 μm MIN OVERALL NICKEL UNDERPLATE, 3μm MIN TIN PLATE  
-MOD JACK CONTACTS: 0.25mm THICK, PHOSPHOR BRONZE, 1.27 μm MIN OVERALL NICKEL UNDERPLATE, WITH 0.76μm OR 1.27μm 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 2.03μm MIN. SILVER PLATE OVER 1.02μm MIN. NICKEL OVER 1.02μm MIN. COPPER UNDERPLATE; LEADS POST-PLATED WITH 3.05μm MIN. MATTE TIN.  
-LIGHT PIPE: POLYCARBONATE
- 2 RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB-PART F.

- 3 MAGNETICS:  
-IMPEDANCE: 100 OHMS  
-TRANSMIT OPEN CIRCUIT INDUCTANCE (OCL): 350μH (MIN) @100KHz,  
0.1 VRMS WITH 8 mA DC BIAS.  
-TURNS RATIO (CHIP:CABLE): TX 1:1, RX: 1:1  
PERFORMANCE:  
-TRANSMIT BIDIRECTIONAL ALL 4 PAIRS  
-RECEIVE BIDIRECTIONAL ALL 4 PAIRS

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	1.2	18.0	30	35
40.0 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				

- DIELECTRIC (ISOLATION VOLTAGE):  
-2250 VDC (1 mA CUTOFF CURRENT) FOR 60 SECONDS DURATION BETWEEN CABLE CONTACTS AND PCB CONTACTS (INCLUDING SHIELD).  
-1500 VRMS (10 mA CUTOFF CURRENT) FOR 60 SECONDS DURATION BETWEEN CABLE CONTACTS AND PCB CONTACTS (INCLUDING SHIELD).  
-ALL BRIDGED ON EITHER SIDE OF MAGNETICS PACKAGE FOR RJ-45 CONTACTS.  
OPERATING TEMPERATURE: FROM 0°C TO +70°C.

- 4 LED COMPLIANT WITH IEC60825-1 SAFETY OF LASER PRODUCTS. WHEN OPERATED UP TO 20mA.
- 5 LED PEAK WAVELENGTH: GREEN = 565±5nm  
YELLOW = 591±5nm  
ORANGE = 607±5nm
- 6 LED 2 WILL EMULATE "YELLOW" LIGHT WHEN BOTH GREEN AND ORANGE DIODES ARE DRIVEN AT CONSTANT CURRENT (20 mA RECOMMENDED) TO INDICATE THE THIRD COLOR STATES.
- 7 ALL DIMENSIONS NOMINAL UNLESS OTHERWISE NOTED.
8. 1368398-1 SHOWN UNLESS OTHERWISE NOTED.
- 9 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.

- 10 APPLIES ONLY TO 1368398-3/4/7/8, 1-1368398-3 AND 2-1368398-3.
- 11 TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, PLACE OF ORIGIN TO BE MARKED IN APPROXIMATE LOCATION AS SHOWN. DATE CODE: "YY" IS YEAR, "WW" IS WORK WEEK, "D" IS DAY OF WEEK, WITH SUNDAY=1
- 12 PART SHOULD BE COMPLIANT TO WAVE SOLDERING PROCESS ONLY, PREHEAT TEMPERATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS, PEAK SOLDERING TEMPERATURE IS 260°C MAX, 10 SECONDS MAX.
- 13 PART SHOULD BE COMPLIANT TO BOTH WAVE SOLDERING PROCESS, PREHEAT TEMPERATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS, PEAK SOLDERING TEMPERATURE IS 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.

BOTH	3	TRAY	0.76um	YELLOW	GREEN/ORANGE	6	YES	TOP AND SIDES	1.8	1.8	2-1368398-3
WAVE	12	TRAY	0.76um	GREEN/YELLOW	GREEN		YES	NO	3.3	3.18	1-1368398-6
WAVE	12	TRAY	0.76um	YELLOW	GREEN/ORANGE	6	YES	TOP AND SIDES	1.8	1.8	1-1368398-3
WAVE	12	TRAY	1.27um	YELLOW	GREEN/ORANGE	6	NO	TOP AND SIDES	3.3	3.18	1368398-8
WAVE	12	TRAY	0.76um	GREEN	GREEN/ORANGE	6	YES	TOP AND SIDES	3.3	3.18	1368398-7
WAVE	12	TRAY	0.76um	YELLOW	GREEN/ORANGE	6	NO	TOP ONLY	3.3	3.18	1368398-6
BOTH	13	TAPE & REEL	0.76um	YELLOW	GREEN/ORANGE	6	YES	NO	1.8	1.8	1368398-5
WAVE	12	TRAY	0.76um	YELLOW	GREEN/ORANGE	6	YES	TOP AND SIDES	3.3	3.18	1368398-4
BOTH	13	TAPE & REEL	0.76um	YELLOW	GREEN/ORANGE	6	YES	TOP AND SIDES	1.8	1.8	1368398-3
BOTH	13	TAPE & REEL	0.76um	YELLOW	GREEN/ORANGE	6	YES	TOP ONLY	1.8	1.8	1368398-2
WAVE	12	TRAY	0.76um	YELLOW	GREEN/ORANGE	6	NO	NO	3.3	3.18	1368398-1
SOLDER PROCESS		PACKAGE METHOD	GOLD PLATING THICKNESS	LED 1	LED 2		RJ11 SELECTIVE CAPABILITY	GROUND TABS	DIM B	DIM A	PART NO.

XXXX

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

PRODUCT SPEC 108-2207

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 ±°

OWN ERIC BRIANT 15MAY2003  
CHK N. REESER 9FEB2004  
APVD N. REESER 9FEB2004

MODEL NAME  
MAGJACK

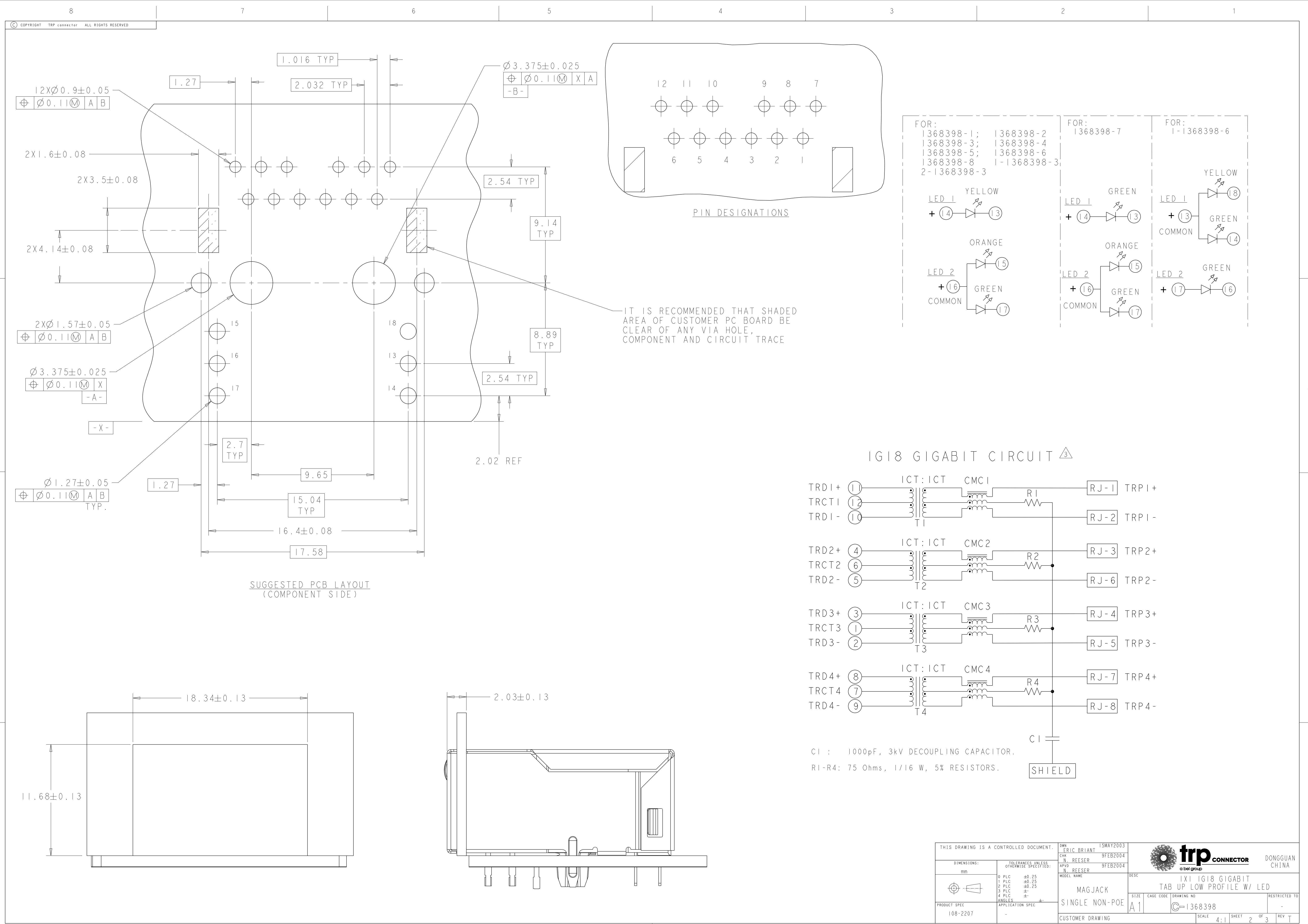
CUSTOMER DRAWING

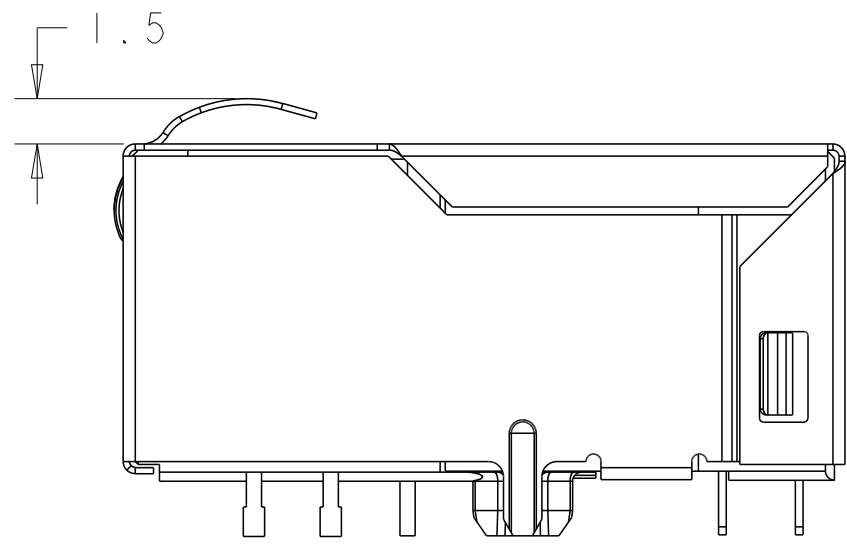
DONGGUAN CHINA

DESC  
IXI IG18 GIGABIT  
TAB UP LOW PROFILE W/ LED

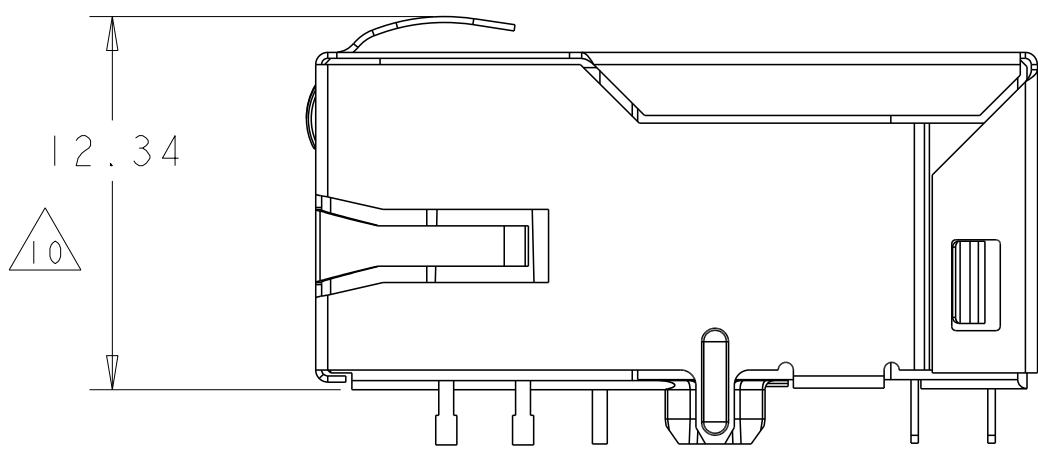
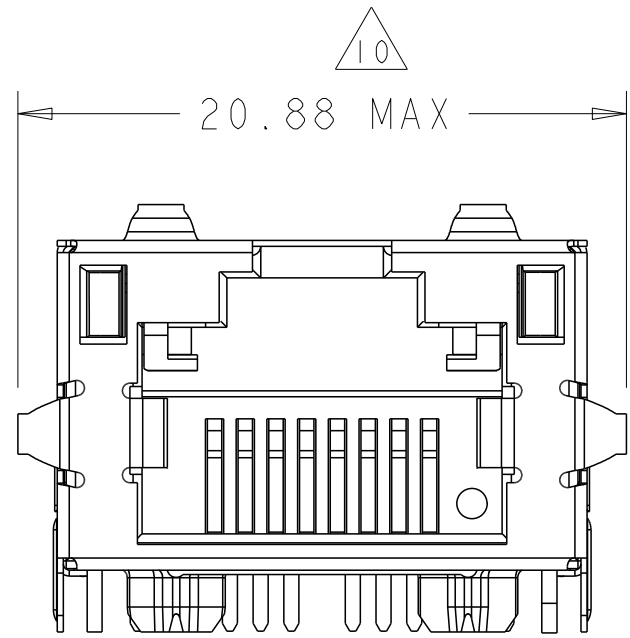
SIZE A1  
CAGE CODE  
DRAWING NO  
C=1368398

RESTRICTED TO  
-  
SCALE 4:1  
SHEET 1 OF 3  
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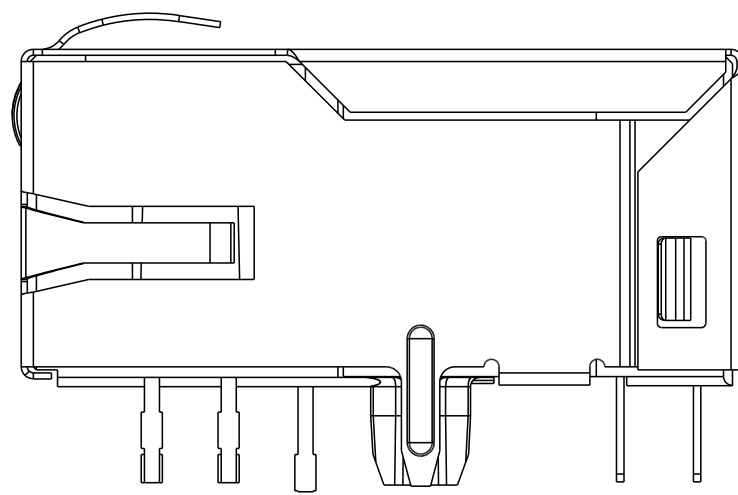
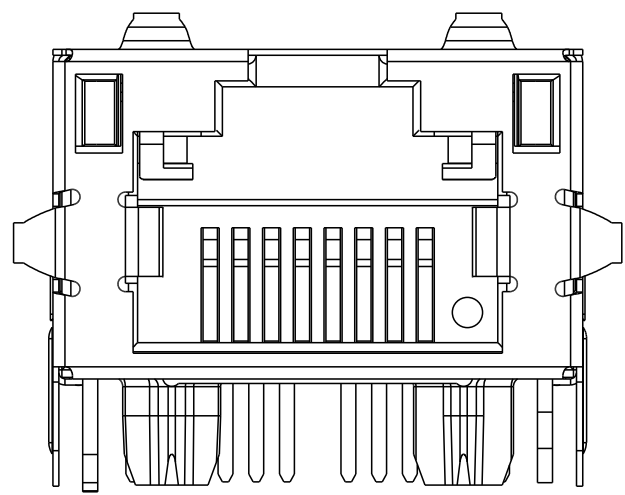




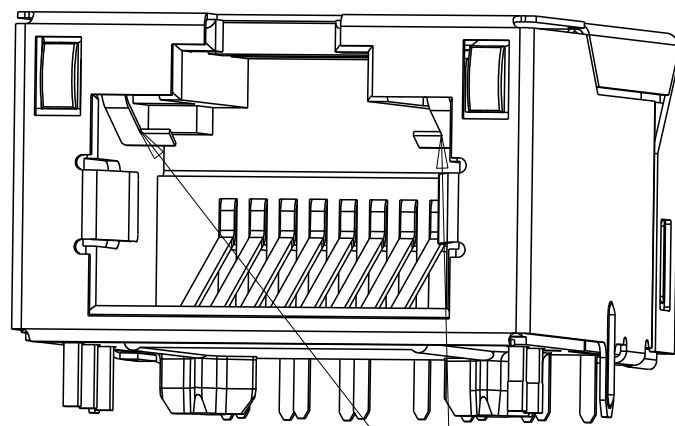
1368398-2



1368398-3, 1-1368398-3, 2-1368398-3

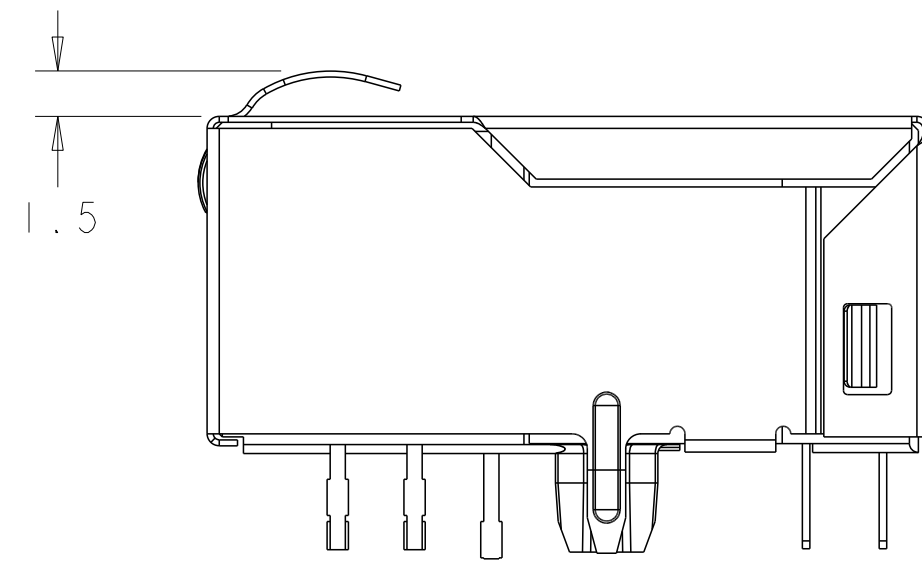
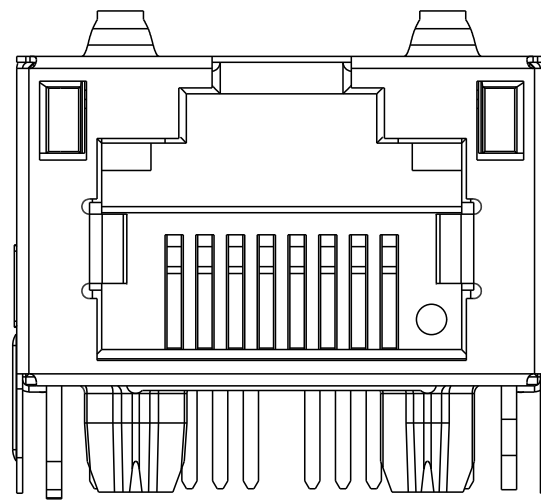


1368398-4 & 1368398-7

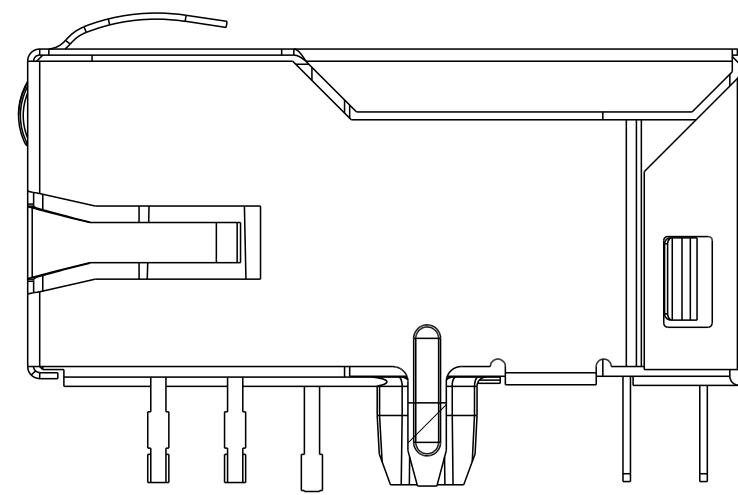
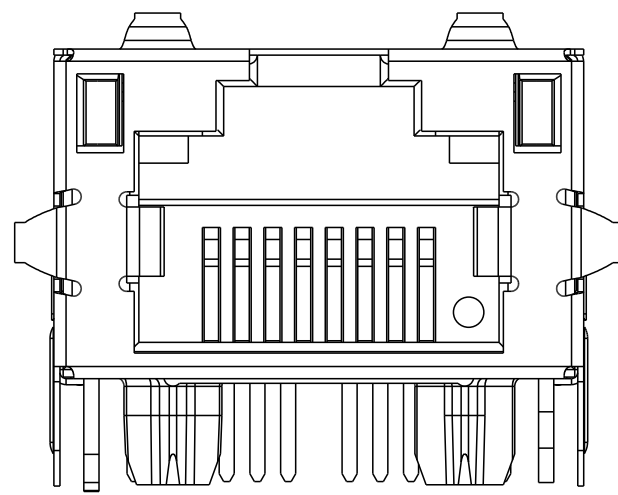


1368398-5

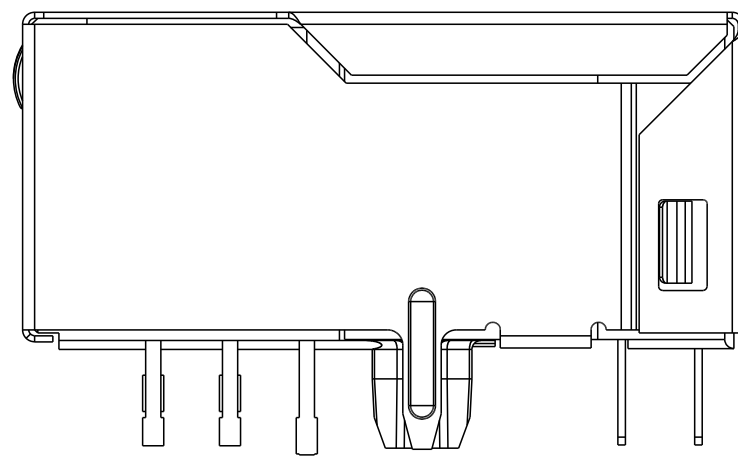
9 RJ45 MOD PLUG  
SELECTIVE SS  
SPRING MEMBER




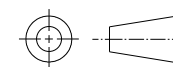
1368398-6



1368398-8 (WITHOUT RJ II SELECTIVE SPRING MEMBER)



1-1368398-6

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DIMENSIONS:		CHK N. REESER 9FEB2004					
mm		APVD N. REESER 9FEB2004					
		TOLERANCES UNLESS OTHERWISE SPECIFIED:		DESC IXI IG18 GIGABIT TAB UP LOW PROFILE W/ LED			
		0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES ± APPLICATION SPEC ±		MODEL NAME MAGJACK			
PRODUCT SPEC 108-2207		SINGLE NON-POE		SIZE A1	CAGE CODE C=1368398	RESTRICTED TO -	
CUSTOMER DRAWING				SCALE 4:1	SHEET 3	OF 3	REV T

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Bel:

[1368398-2](#) [1368398-4](#)