

MATERIALS:
 - HOUSING: HIGH TEMPERATURE NYLON, BLACK, UL 94V-0
 - SHIELD: 0.20±0.02mm THICK, BRASS PREPLATED WITH 0.76µm 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: 0.25mm 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 EMITTING DIODE (LED): DIFFUSED EPOXY LENS, CARBON STEEL WIREFRAME PREPLATED WITH 2.03µm SILVER PLATE OVER 1.02µm NICKEL OVER 1.02µm COPPER UNDERPLATES; LEADS POST-PLATED WITH 3.05 µm MIN TIN
 - LIGHT PIPE: POLYETHER SULFONE

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

MAGNETICS:
 - APPLICATION: 10/100/1000 BASE-T
 - IMPEDANCE: 100 OHMS ±15%
 - TURNS RATIO (CHIP: CABLE): 1:1 ALL 4 PAIRS
 - OPEN CIRCUIT INDUCTANCE (OCL): 350µH (MIN) @100kHz, 0.1 VRMS
 - 8 mA DC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS.
 - ALL FOUR PAIRS BI-DIRECTIONAL
 - PERFORMANCE @25°C:

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

- ISOLATION VOLTAGE: COMPLIES WITH IEEE802.3.2002, PARA 40.6.1.1. ITEM a AND b

OPERATING TEMPERATURE: FROM 0°C TO 70°C

LED IS DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.
 LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. @ I_F=20mA
 FORWARD VOLTAGE (VF): GREEN 2.2V TYP. @ I_F=20mA
 DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. @ I_F=20mA
 FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. @ I_F=20mA
 DOMINANT WAVELENGTH (λD): ORANGE 605 nm TYP. @ I_F=20mA
 FORWARD VOLTAGE (VF): ORANGE 2.1V TYP. @ I_F=20mA

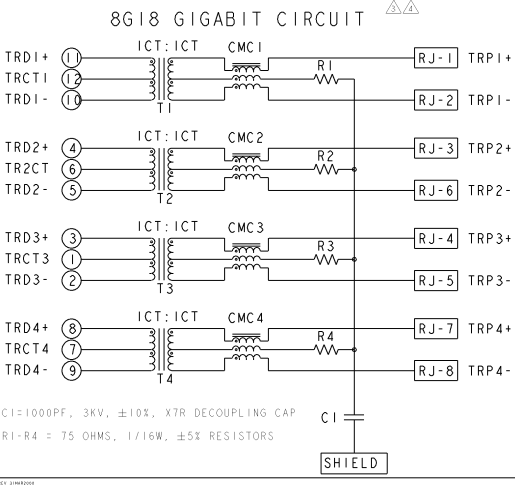
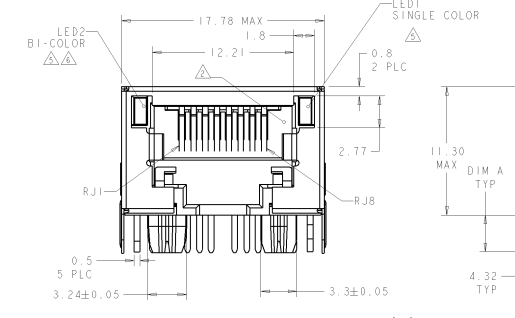
LED 2 WILL EMULATE "YELLOW" LIGHT WHEN BOTH GREEN AND ORANGE DIODES ARE DRIVEN AT CONSTANT CURRENT (20 mA RECOMMENDED) TO INDICATE THE THIRD COLOR STATE.

ALL DIMENSIONS ARE NOMINAL UNLESS OTHERWISE NOTED.

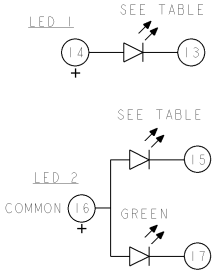
RJ45 MOD PLUG SELECTIVE - THIS CONNECTOR UTILIZES STEEL SPRING MEMBER WHICH PREVENTS THE INSERTION OF A RJ45 (6 POSITION) PLUG INTO THE JACK PORT, WHILE ALLOWING A RJ45 (8 POSITION) PLUG TO MATE FREELY.
 WARNING: THIS FEATURE WAS DEVELOPED FOR TYPICAL PLUG INSERTION FORCES. EXCESSIVE INSERTION FORCE 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 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.

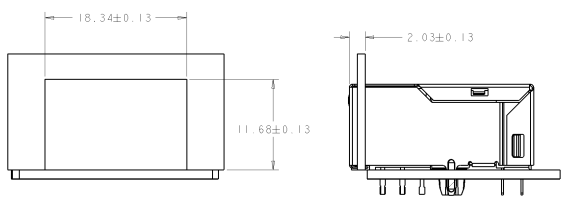
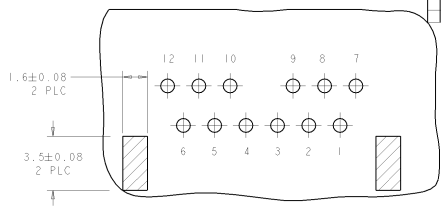
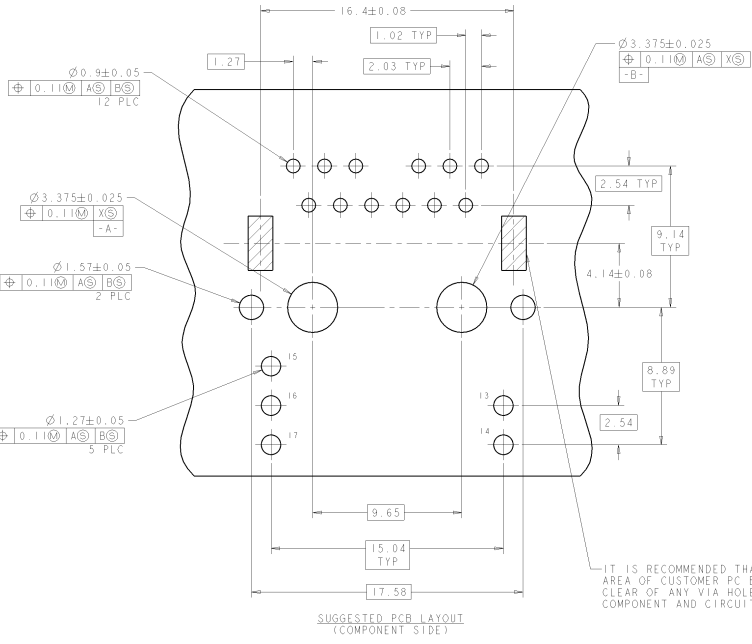


CI=1000PF, 3KV, ±10%, X7R DECOUPLING CAP
 R1-R4 = 75 OHMS, 1/16W, ±5% RESISTORS

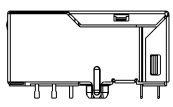
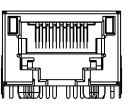


NO	G / YELLOW	GREEN	3.3	3.18	1368589-9
TOP AND SIDES	G / ORANGE	YELLOW	3.3	3.18	1368589-8
TOP AND SIDES	G / ORANGE	YELLOW	1.8	1.8	1368589-7
TOP ONLY	G / ORANGE	YELLOW	1.8	1.8	1368589-6
TOP AND SIDES	G / ORANGE	GREEN	3.3	3.18	1368589-5
NO	G / ORANGE	GREEN	1.8	1.8	1368589-4
NO	G / ORANGE	GREEN	3.3	3.18	1368589-3
NO	G / ORANGE	YELLOW	1.8	1.8	1368589-2
NO	G / ORANGE	YELLOW	3.3	3.18	1368589-1

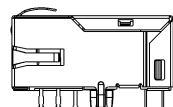
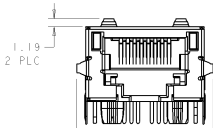
GROUND TABS	LED 2	LED 1	DIM B	DIM A	PART NO.
THIS DRAWING IS A CONTROLLED DOCUMENT.					
PROVISIONS: 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS. 2. DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY. 3. DIMENSIONS ARE NOMINAL UNLESS OTHERWISE NOTED. 4. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED. 5. DIMENSIONS ARE TO SURFACE UNLESS OTHERWISE NOTED. 6. DIMENSIONS ARE TO THE CENTER OF THE HOLE UNLESS OTHERWISE NOTED. 7. DIMENSIONS ARE TO THE CENTER OF THE PIN UNLESS OTHERWISE NOTED. 8. DIMENSIONS ARE TO THE CENTER OF THE PIN UNLESS OTHERWISE NOTED. 9. DIMENSIONS ARE TO THE CENTER OF THE PIN UNLESS OTHERWISE NOTED. 10. DIMENSIONS ARE TO THE CENTER OF THE PIN UNLESS OTHERWISE NOTED.		11. 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.			
CUSTOMER DRAWING: A 00779 1368589					



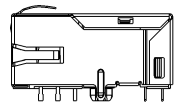
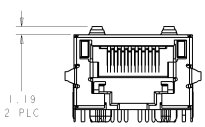
IT IS RECOMMENDED THAT SHADED AREA OF CUSTOMER PC BOARD BE CLEAR OF ANY VIA-HOLE, COMPONENT AND CIRCUIT TRACE



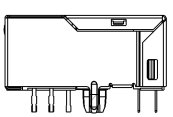
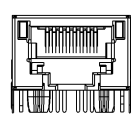
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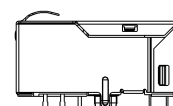
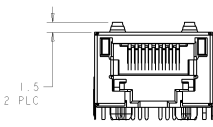
1368589-5
1368589-8



1368589-7



1368589-3



1368589-6

THIS DRAWING IS A CONTROLLED DOCUMENT.		TE Connectivity		
DRAWING NO: 1368589-00 REV: AA DATE: 00	PART NO: 1368589-00 REV: AA DATE: 00	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"> 12X1 MAG25(TM) MODULAR JACK 8G18 SERIES GIGABIT CIRCUIT SHIELDED, LEDS, TAG DOWN </td> <td style="width: 70%;"> CUSTOMER DRAWING: 1368589 REV: AA DATE: 00 </td> </tr> </table>	12X1 MAG25(TM) MODULAR JACK 8G18 SERIES GIGABIT CIRCUIT SHIELDED, LEDS, TAG DOWN	CUSTOMER DRAWING: 1368589 REV: AA DATE: 00
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