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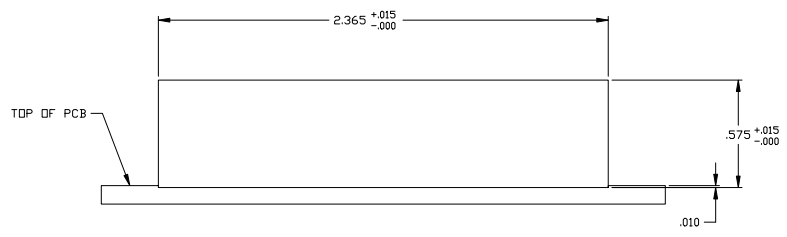
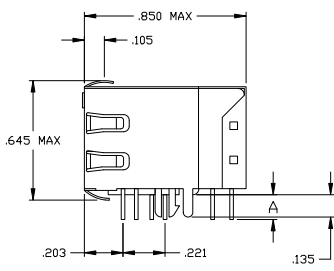
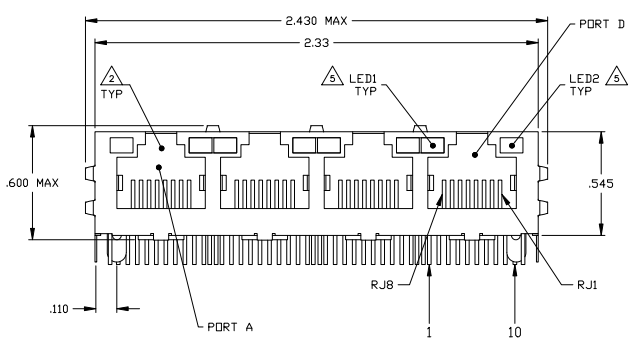
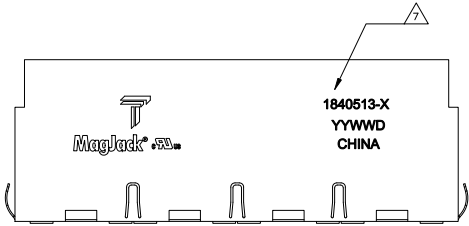
For any questions, you can email us directly:
sales@integrated-circuit.com

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PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
 6736910-5939956-6426781-6428361-6564638-6840817-7123117
 7429195-7717749-7808751-6217391-6149050-7924130

REVISIONS		DATE	BY	APP
1	TRP			
2	EC-1411535 COMPANY LOGO CHANGE	14JUN2016	TL	KZ

MECHANICAL:



1X4 SUGGESTED PANEL CUTOUT

- △ MATERIALS:
 - HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0
 - SHIELD - .010" THICK, C26800 BRASS PREPLATED WITH 30µINCH MIN SEMI-BRIGHT NICKEL. SOLDER TABS POST DIPPED WITH 100µINCH MIN SAC SOLDER.
 - MOD JACK CONTACTS - 0.0151" X 0.018" PHOSPHOR BRONZE, 50µINCH MIN OVERALL NICKEL UNDERPLATE WITH SELECT 50µINCH MIN HARD GOLD FINISH PLATE. SOLDER TAILS WITH 100µINCH MIN MATTE TIN AND/OR SAC SOLDER DIP.
 - LIGHT EMITTING DIODE(LED) - DIFFUSED EPOXY LENS, .020" X .020" CARBON STEEL WIREFRAME LEADS PRE-PLATED WITH 80µINCH SILVER OVER 40µINCH NICKEL UNDERPLATE OVER 40µINCH COPPER UNDERPLATE. POST-PLATED WITH 100µINCH MIN MATTE TIN AND/OR SAC SOLDER DIP OR PURE TIN SOLDER DIP.

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

- △ MAGNETICS
 - IMPEDANCE: 100 OHMS
 - TURNS RATIO (CHP: CABLE): 1:1 ALL FOUR PAIRS
 - OPEN CIRCUIT INDUCTANCE (OCL): 350pH MIN @100MHz, 0.1VRMS, 8mADC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS
 - ALL FOUR PAIRS BI-DIRECTIONAL
 - PERFORMANCE @ 25°C
 - INSERTION LOSS (IL): 1.1dB MAX FROM 0.5MHz TO 100MHz
 - RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 40MHz
 - 12-20dB @ 400dB MIN FROM 4.0MHz TO 100MHz
 - CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz
 - 33-20*LOG(I/S) @ 50dB MIN FROM 4.0MHz TO 100MHz
 - COMMON MODE REJECTION RATIO (CMRR): 30dB MIN FROM 0.5MHz TO 100MHz
 - ISOLATION VOLTAGE: COMPLIES WITH IEEE802.3 2002, PARA 40.6.11, ITEM b.

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

- △ THE 250 OHM LED RESISTORS ARE OPTIONAL. PLEASE SEE CHART FOR PRESENCE OR ABSENCE OF LED RESISTORS. IF THE LED WITHOUT 250 OHM RESISTORS, LED IS DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.
 - LED COLOR: DOMINANT WAVELENGTH (D): GREEN 568 nm TYP. @ IF=20mA
 - FORWARD VOLTAGE (VF): GREEN 2.2V TYP. @ IF=20mA
 - DOMINANT WAVELENGTH (D): YELLOW 588 nm TYP. @ IF=20mA
 - FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. @ IF=20mA
 - DOMINANT WAVELENGTH (D): ORANGE 605 nm TYP. @ IF=20mA
 - FORWARD VOLTAGE (VF): ORANGE 2.05V TYP. @ IF=20mA
- IF THE LED WITH 250 OHM RESISTORS, LED IS DRIVEN WITH 5V VOLTAGE AND THE MAX. OPERATING CURRENT IS 20mA.
 - LED COLOR: DOMINANT WAVELENGTH (D): GREEN 568 nm TYP. @ VF=5V
 - FORWARD CURRENT (IF): GREEN 12 mA TYP. @ VF=5V
 - DOMINANT WAVELENGTH (D): YELLOW 588 nm TYP. @ VF=5V
 - FORWARD CURRENT (IF): YELLOW 13 mA TYP. @ VF=5V

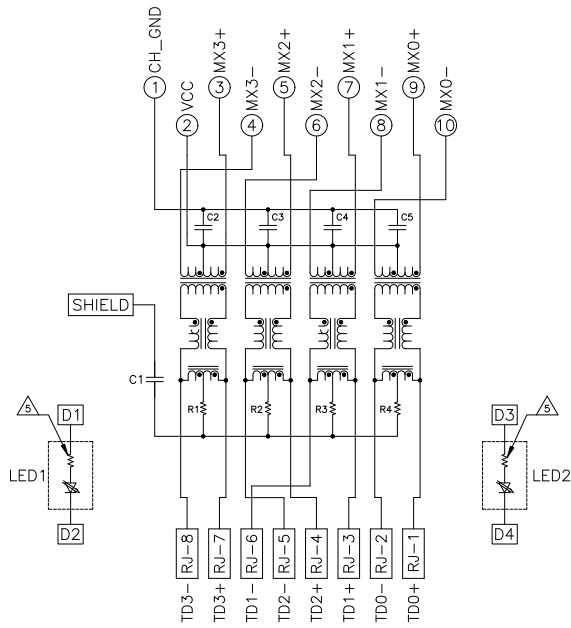
- △ INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL TO SUPPORT AUTO-MDI/MDOX.
- △ TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.

- △ THESE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS. PEAK WAVE SOLDERING TEMPERATURE IS 265°C MAX, 10 SECONDS MAX.

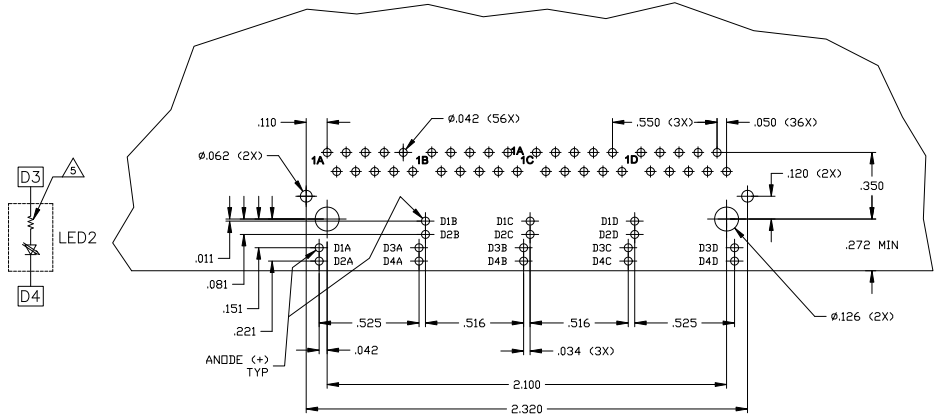
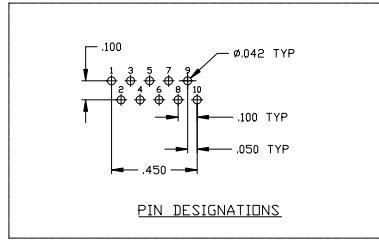
1840513-8	GREEN	NO	YELLOW	NO	1840513-8
1840513-7 <td>GREEN</td> <td>NO</td> <td>GREEN</td> <td>NO</td> <td>1840513-7</td>	GREEN	NO	GREEN	NO	1840513-7
1840513-6 <td>YELLOW</td> <td>YES</td> <td>GREEN</td> <td>YES</td> <td>1840513-6</td>	YELLOW	YES	GREEN	YES	1840513-6

THIS DRAWING IS A CONTROLLED DOCUMENT.		REVISED	APPROVED
DESIGNER	DATE	BY	DATE
108-2100		MICHAEL ZHANG	
108-2100		TRP CONNECTOR	
108-2100		1X4 7000 GIGABIT TAB UP W/ LED	
108-2100		GANG NON-POE	
108-2100		1840513	
108-2100		1840513	

7G05 SERIES GIGABIT CIRCUIT



C1 = 1000 pF, 2kV DECOUPLING CAPACITOR
 R1-R4 = 75 OHMS, 1/16W, 5% RESISTORS
 C2-C5 = 0.1μF, 10%, 50V, X7R CAPACITORS



SUGGESTED PCB LAYOUT
 (Component Side)

THIS DRAWING IS A CONTROLLED DOCUMENT.		REVISED BY: MICHAEL ZHANG		DATE: 11/11/11	
DESIGNED BY: MICHAEL ZHANG	DATE: 11/11/11	APPROVED BY: MICHAEL ZHANG	DATE: 11/11/11	PART NO: 1840513-8	
DRAWN BY: MICHAEL ZHANG		CHECKED BY: MICHAEL ZHANG		REVISED BY: MICHAEL ZHANG	
DATE: 11/11/11		DATE: 11/11/11		DATE: 11/11/11	
PROJECT NO: 108-2100		CUSTOMER DRAWING		SCALE: 1:1	
DRAWING NO: 1840513-8		REVISED BY: MICHAEL ZHANG		DATE: 11/11/11	
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