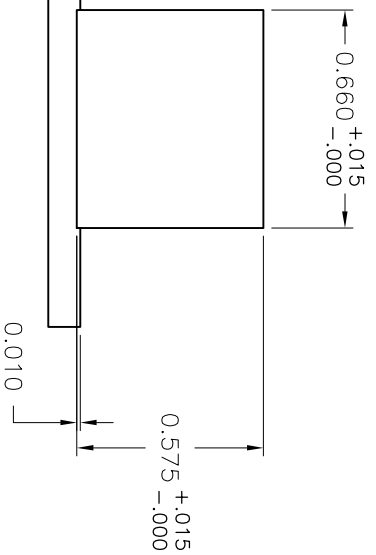
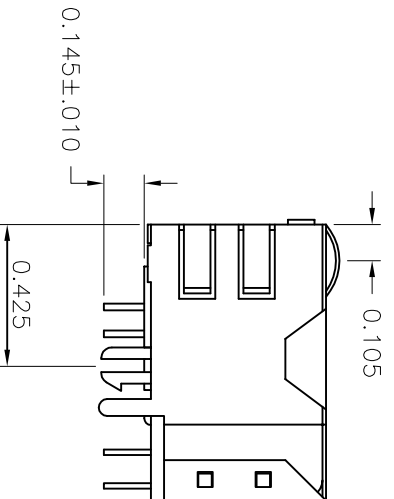
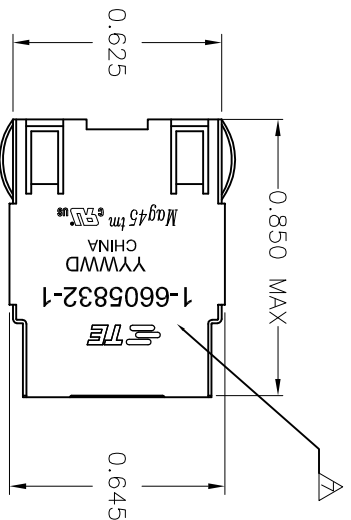




**THE DATASHEET OF**  
**1-6605832-1**



| LOG | REF | REVISIONS                 |           |    |       |
|-----|-----|---------------------------|-----------|----|-------|
| AA  | Z2  | DESCRIPTION               | DATE      | BY | APP'D |
|     | F   | DR                        |           |    |       |
|     | B1  | REvised PER ECO-11-005140 | 29MAR11   | RK | HMR   |
|     | C   | ECO-11-013901             | 30MAY2011 | EL | LR    |



△ MATERIALS:

-HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0  
 -SHIELD - 0.010" THICK, (Z6800 BRASS PREPLATED WITH 30µINCH MIN SEMI-BRIGHT NICKEL, SOLDER TABS POST DIPPED WITH 100µINCH MIN SAC SOLDER  
 -MOD JACK CONTACTS - 0.0157" x 0.018" PHOSPHOR BRONZE, 50µINCH MIN OVERALL NICKEL UNDERPLATE, WITH SELECT 50µINCH MIN HARD GOLD FINISH PLATE.  
 -SOLDER TABS WITH 100µINCH MIN MATTE TIN AND/OR SAC SOLDER DIP.

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

△ MAGNETICS

-IMPEDANCE: 100 OHMS  
 -TURNS RATIO (CHP: CABLE): TX = 1:1, RX = 1:1  
 -OPEN CIRCUIT INDUCTANCE (OCL): 350nH MIN @100kHz, 0.1VRMS,  
 8mADC BIAS FROM 0°C TO 70°C, TX AND RX  
 -POE CURRENT: 350mADC MAX  
 -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

CROSSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 4.0MHz  
 33-20\*LOG(F/50)DB MIN FROM 4.01MHz TO 100MHz  
 COMMON MODE REFLECTION RATIO (CMRR): 30dB MIN FROM 0.5MHz TO 100MHz  
 -ISOLATION VOLTAGE:1500VAC (MAX) AT 60Hz FOR 60 SECS.

4. OPERATING TEMPERATURE: FROM 0° - +70°

△ LEDS WITH BUILT-IN RESISTOR

LEDS ARE DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA.  
 LED COLOR : DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP @ VF=5V  
 FORWARD CURRENT (IF): GREEN 12 mA TYP. @ VF=5V  
 DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. @ VF=5V  
 FORWARD CURRENT (IF): YELLOW 13 mA TYP. @ VF=5V

△ INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION. THE MAGNETICS ARE SYMMETRIC TO SUPPORT AUTO-MDI/MDIX.

△ THE CONNECTIVITY LOGO, THE CONNECTIVITY PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.

8. THE PART IS RECOMMENDED FOR WAVE SOLDERING PROCESS. PEAK WAVE SOLDERING TEMPERATURE IS 265°C MAX. 10 SECONDS MAX.

| DESCRIPTION | DATE | BY | APP'D |
|-------------|------|----|-------|
| GREEN LED1  |      |    |       |
| GREEN LED2  |      |    |       |
| 1-6605832-1 |      |    |       |

**STE** TE Connectivity

| DIMENSIONS: |             | OTHER REFERENCE: |         | MATERIAL  |         |
|-------------|-------------|------------------|---------|-----------|---------|
| INCHES      | MILLIMETERS | 0 RIG            | 1 RIG   | 2 RIG     | 3 RIG   |
| 0.660       | 16.76       | 0 RIG            | 1 RIG   | 2 RIG     | 3 RIG   |
| 0.575       | 14.61       | 1 RIG            | 2 RIG   | 3 RIG     | 4 RIG   |
| 0.105       | 2.67        | 2 RIG            | 3 RIG   | 4 RIG     | 5 RIG   |
| 0.010       | 0.25        | 3 RIG            | 4 RIG   | 5 RIG     | 6 RIG   |
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| REV ISONS |      | DATE        | REV  | APPD |
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| P         | LINE | DESCRIPTION | DATE | REV  |
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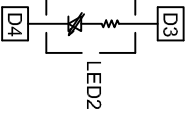
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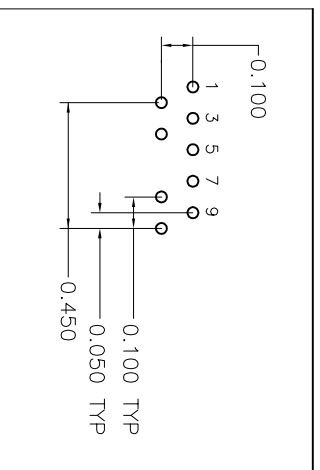
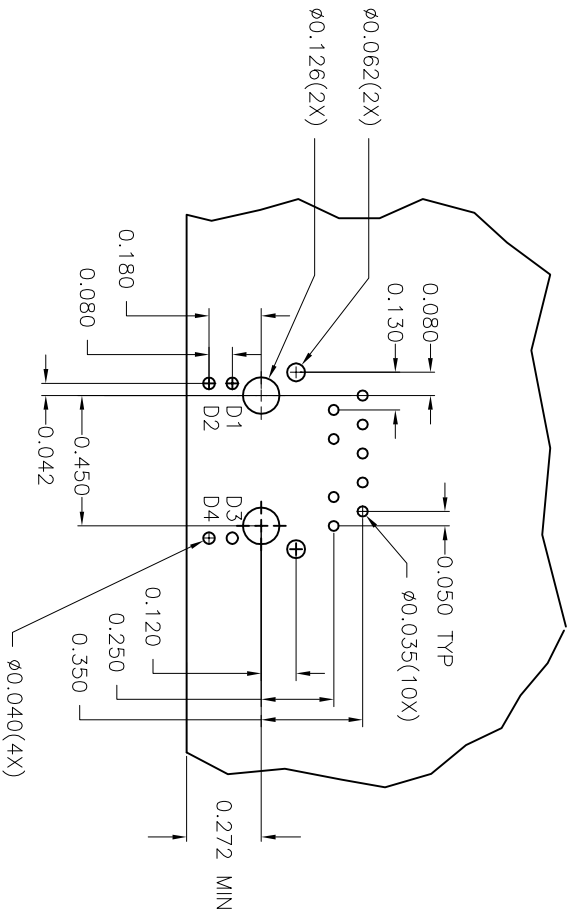
ACUIT

⑧ T3CT  
⑨ UP7/8  
⑩ UP4/5

TXN RJ-2  
TXP RJ-1



SHIELD



Suggested Footprint

|  |  |     |                  |      |            |
|--|--|-----|------------------|------|------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | REV | VARIELA - DOKKIS | DATE | 04/23/2018 |
| DIMENSIONS:                            |  | REV | D. FAROLE        | DATE | 04/23/2018 |
| INCHES                                 |  | REV | DAVIDE           | DATE | 04/23/2018 |
| MILLIMETERS                            |  | REV | DAVIDE           | DATE | 04/23/2018 |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: |  | REV | DAVIDE           | DATE | 04/23/2018 |
| FRACTIONS                              |  | REV | DAVIDE           | DATE | 04/23/2018 |
| DECIMALS                               |  | REV | DAVIDE           | DATE | 04/23/2018 |
| ANGLES                                 |  | REV | DAVIDE           | DATE | 04/23/2018 |
| HATCH                                  |  | REV | DAVIDE           | DATE | 04/23/2018 |
| MATERIAL                               |  | REV | DAVIDE           | DATE | 04/23/2018 |
| CUSTOMER DRAWING                       |  | REV | DAVIDE           | DATE | 04/23/2018 |
| SIZE                                   |  | REV | DAVIDE           | DATE | 04/23/2018 |
| SCALE                                  |  | REV | DAVIDE           | DATE | 04/23/2018 |
| SHEET                                  |  | REV | DAVIDE           | DATE | 04/23/2018 |
| RESTRICTED TO                          |  | REV | DAVIDE           | DATE | 04/23/2018 |

**STE** TE Connectivity

1x1, MAC45(TM), 10/100, 7V15 CIRCUIT, TAB UP, W RESISTOR LED, NO CAPACITOR

A2 00779 6605832

SCALE NTS SHEET 2 OF 2 REV C

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 [TE Connectivity](#) Information

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-  Alternative Solution
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