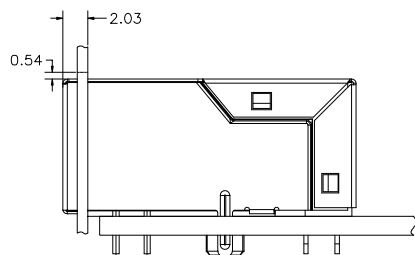
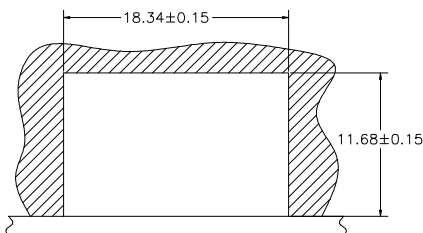
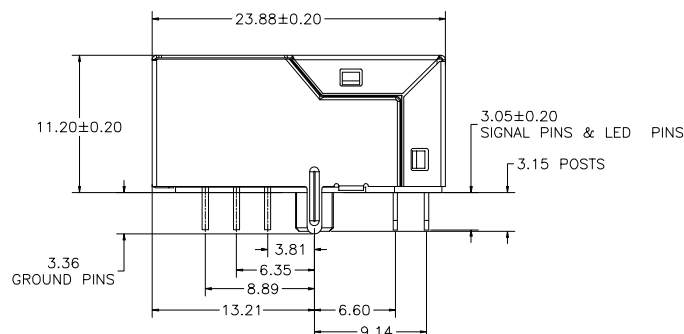
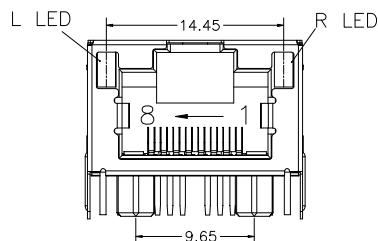
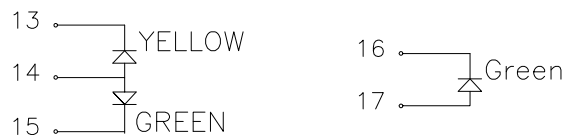
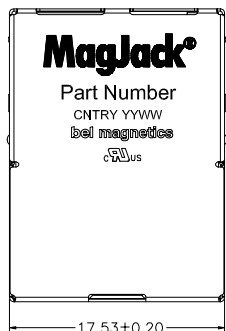


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#### NOTES:

##### Material:

1. Housing Material : THERMOPLASTIC UL94V-0 (BLACK COLOR)
2. Contact Mateial : Phosphor Bronze T=0.35mm
3. Plating:: Contact Area- Selection Gold Plating 6U".
4. Shield : Copper Alloy OR Stainless Steel 0.20mm Thickness Plating Ni .
5. LED : Option.

##### Feature:

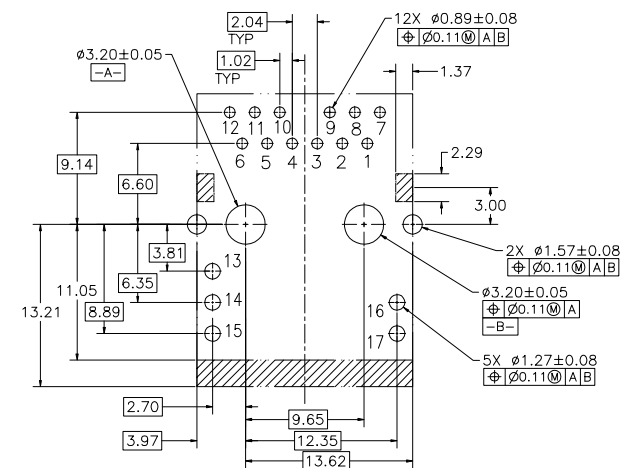
1. RJ45 10/1000Base-Tx Transformer Jack With Transformer /Impedance Resistor/High Voltage Capacitor.
2. Designed To Meet IEEE 802.3z Requirement.
3. Designed For 1000 Base Transmission over UTP-7 Cable.
4. Operation Temprature Range: -40° C To +85° C

##### Mechanical:

1. Operating Life: 1000 Cycles Min.
2. PCB Retention Pre-Solder: 1 Lb Min.

##### Environmental:

1. Mates With Modular Plug Conforming To Fcc Part 68, Subpart F.



SUGGESTED CUSTOMER BOARD LAYOUT

P01-1CA1-01  
PART NUMBER

|                      |           |
|----------------------|-----------|
| DRAWN                | 24Apr2024 |
| JARRY YE / FRANK LIU |           |
| CHECKED              | 24Apr2024 |
| BILL LIU             |           |
| APPROVED             | 24Apr2024 |
| TONY YUAN            |           |

TITLE  
Gigabit MagJack<sup>®</sup>  
(WITH LED)  
PATENTED

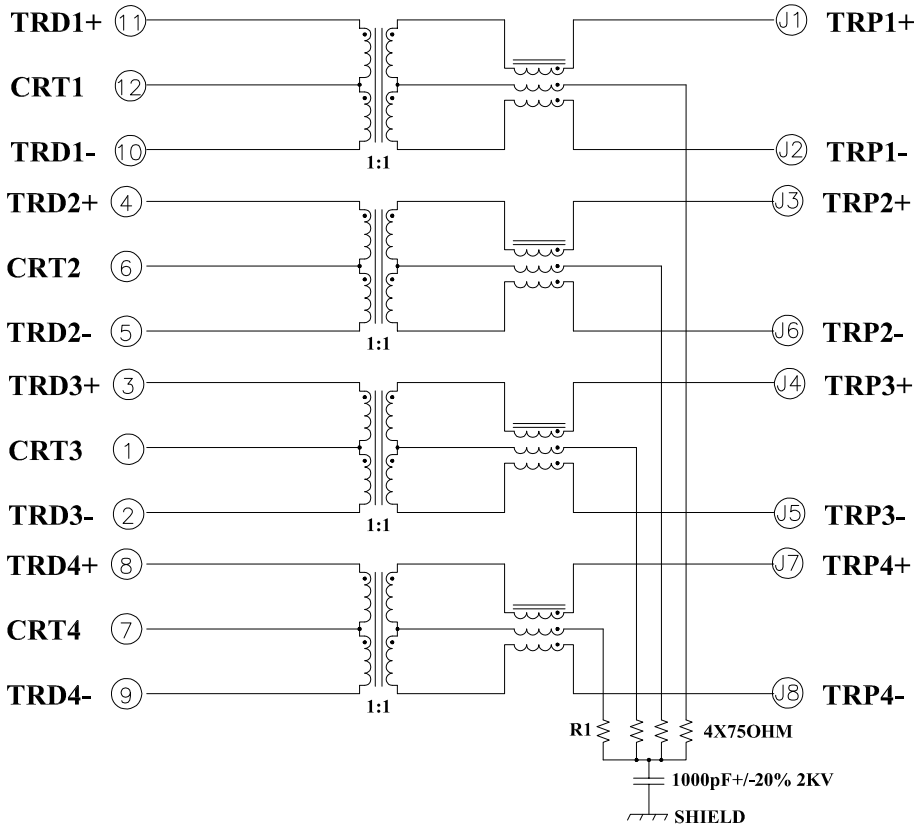
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|-------------|----------------|
| DRAWING NO. | P01-1CA1       |
| FILE NAME   | P01-1CA1_1.DWG |

| UNLESS OTHERWISE NOTED, TOL: |       | SIZE:  |     |
|------------------------------|-------|--------|-----|
| X.                           | ±0.38 | UNIT:  | mm  |
| .X                           | ±0.38 | SCALE: | N/A |
| .XX                          | ±0.25 | PAGE:  | 1/3 |
| .XXX                         | ±0.13 | REV.:  | 1   |



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RoHS



Electrical Specification @ 25 °C

| PARAMETER                          | SPECIFICATIONS                           |                       |
|------------------------------------|------------------------------------------|-----------------------|
| URNS RATIO                         | 1.00 ± 2%                                |                       |
| POLARITY                           | PER SCHEMATIC                            |                       |
| INSERTION LOSS<br>(DATA CHANNELS)  | 100 KHz-125MHz                           |                       |
|                                    | 1.2 dB MAX                               |                       |
| RETURN LOSS<br>(Z OUT=100 OHM ±1%) | 0.5-40 MHz                               | 40 MHz-100 MHz        |
|                                    | 18 dB MIN                                | 12+20LOG(f/80MHz)dB   |
| CROSS TALK<br>LOSS                 | 1-40 MHz                                 | 40-100 MHz            |
|                                    | 35 dB MIN                                | 33-20LOG(f/50) dB MIN |
| COMMON MODE<br>REJECTION RATIO     | 1-100 MHz                                |                       |
|                                    | 30 dB MIN                                |                       |
| INDUCTANCE (OCL)                   | 350 uH MIN @ 100 KHz, 100 mV,8mA DC BIAS |                       |
| HIPOT-OUTPUT<br>ISOLATION          | 2250 VDC MIN @ 60 SECONDS                |                       |

|                      |           |
|----------------------|-----------|
| DRAWN                | 24Apr2024 |
| JARRY YE / FRANK LIU |           |
| CHECKED              | 24Apr2024 |
| BILL LIU             |           |
| APPROVED             | 24Apr2024 |
| TONY YUAN            |           |

|                   |
|-------------------|
| TITLE             |
| Gigabit MagJack ® |
| (WITH LED)        |
| PATENTED          |

|                |
|----------------|
| DRAWING NO.    |
| P01-1CA1       |
| FILE NAME      |
| P01-1CA1_1.DWG |

|                              |       |           |         |
|------------------------------|-------|-----------|---------|
| UNLESS OTHERWISE NOTED, TOL: |       |           |         |
| X.                           | ±0.38 | SIZE:     | A4      |
| .X                           | ±0.38 | UNIT:     | mm      |
| .XX                          | ±0.25 | SCALE:    | N/A     |
| .XXX                         | ±0.13 | PAGE: 2/3 | REV.: 1 |



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RoHS



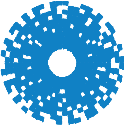
| CHANGE HISTORY |           |                      |                 |          |           |      |
|----------------|-----------|----------------------|-----------------|----------|-----------|------|
| ISSUE          | DATE      | DESCRIPTIN OF CHANGE | REASON          | DRAWN    | APPROVAL  | ECN# |
| 1              | 24APR2024 | —                    | INITIAL RELEASE | JARRY YE | TONY YUAN | —    |
|                |           |                      |                 |          |           |      |
|                |           |                      |                 |          |           |      |

|            |           |
|------------|-----------|
| DRAWN      | 24Apr2024 |
| JARRY YE / | FRANK LIU |
| CHECKED    | 24Apr2024 |
| BILL LIU   |           |
| APPROVED   | 24Apr2024 |
| TONY YUAN  |           |

|                              |
|------------------------------|
| TITLE                        |
| Gigabit MagJack <sup>®</sup> |
| (WITH LED)                   |
| PATENTED                     |

|                |
|----------------|
| DRAWING NO.    |
| P01-1CA1       |
| FILE NAME      |
| P01-1CA1_1.DWG |

|                              |       |           |         |
|------------------------------|-------|-----------|---------|
| UNLESS OTHERWISE NOTED, TOL: |       |           |         |
| X.                           | ±0.38 | SIZE:     | A4      |
| .X                           | ±0.38 | UNIT:     | mm      |
| .XX                          | ±0.25 | SCALE:    | N/A     |
| .XXX                         | ±0.13 | PAGE: 3/3 | REV.: 1 |



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**MAGNETIC SOLUTIONS**