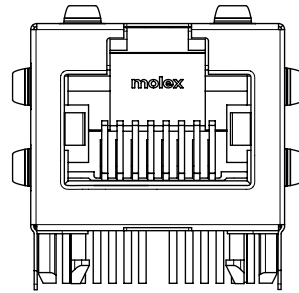
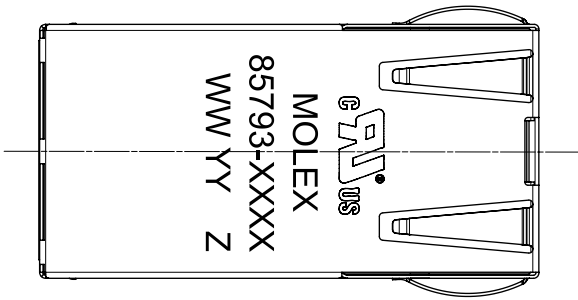
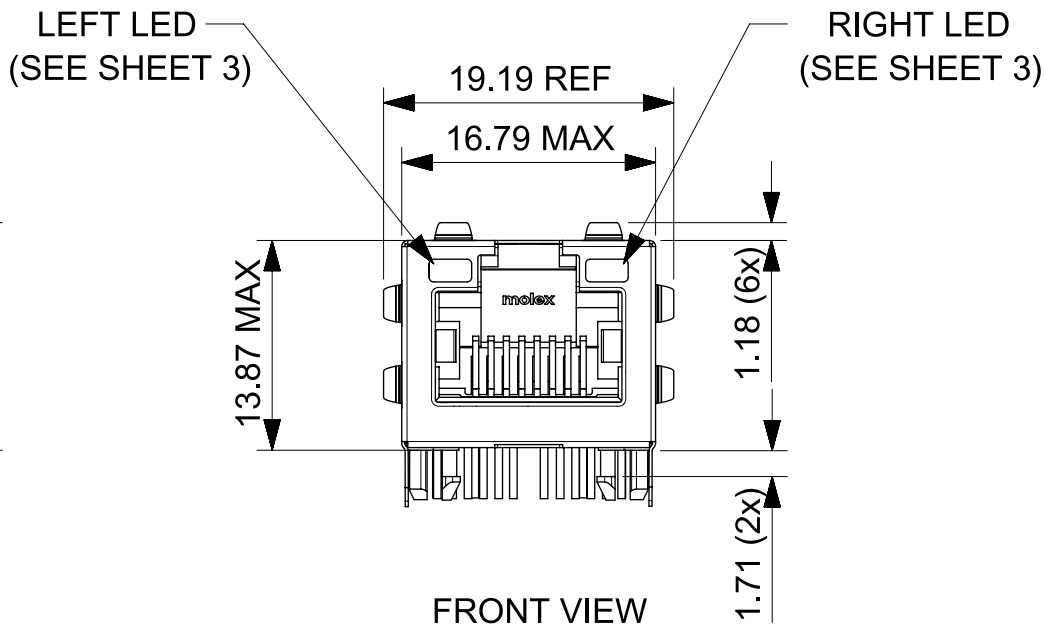
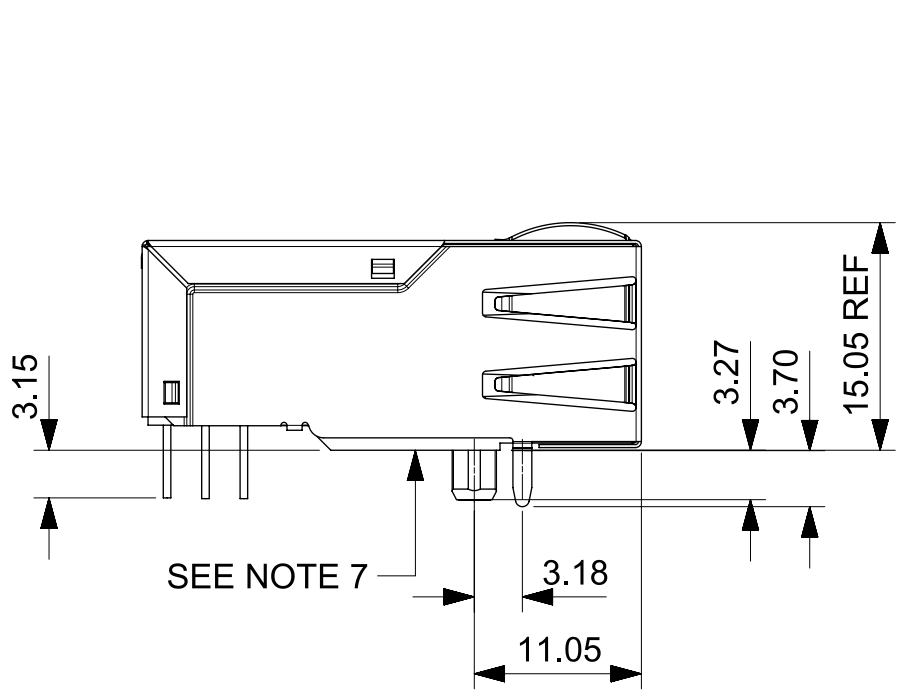


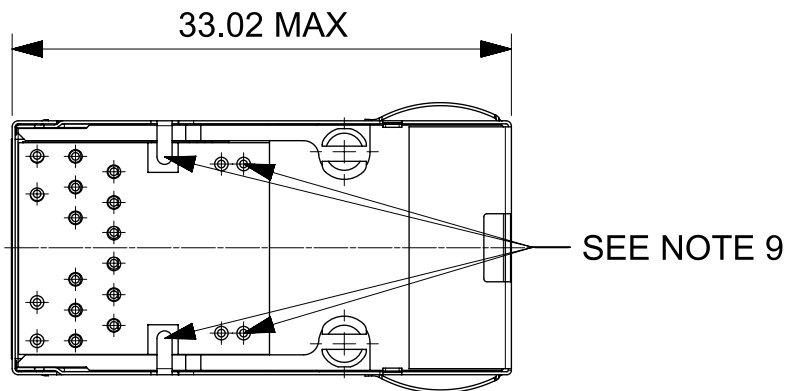
GIGABIT MAGNETIC JACK 1x1 LED



FRONT VIEW  
NON LED VERSION  
P/N 85793-1020

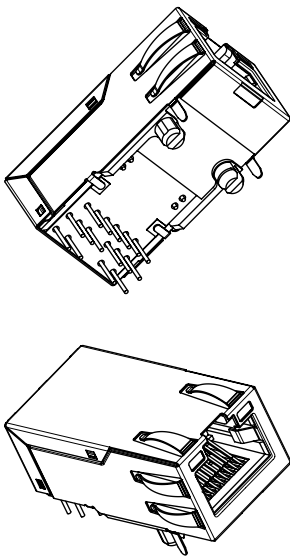


FRONT VIEW  
LED VERSION  
P/N SEE BOM ON SHEET 3

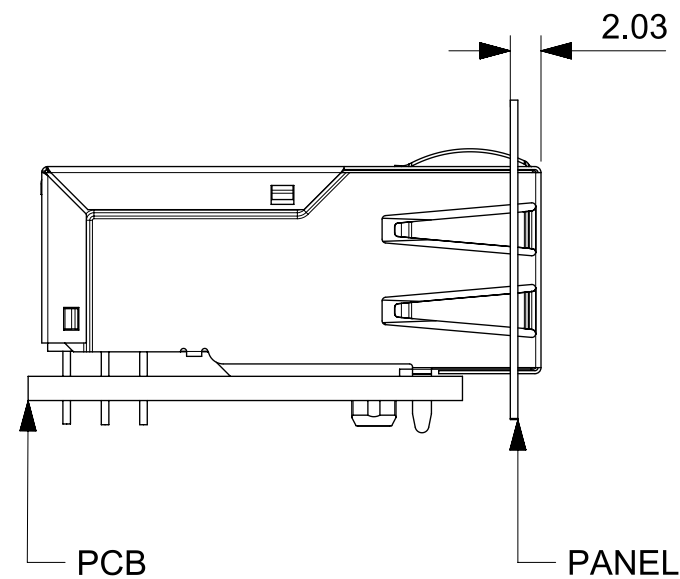


- NOTES:
- 1 - SHIELD MATERIAL: STAINLESS STEEL  
(GROUND PINS ARE SOLDER DIPPED)
  - 2 - PLASTIC MATERIAL: PBT, BLACK, UL 94V-0
  - 3 - RJ45 TERMINALS MATERIAL: COPPER ALLOY  
CONTACT PLATING: 0.76 MICROMETER GOLD  
OVER 1.9 MICROMETER NICKEL  
PHY TERMINALS: TIN PLATED
  - 4 - MATING INTERFACE ACCORDING TO IEC 60603-7
  - 5 - PRODUCT SPECIFICATION: PS-85793-001
  - 6 - PACKAGING SPECIFICATION: PK-85759-001
  - 7 - STAND OFF TO SYSTEM BOARD
  - 8 - RECOMMENDED PCB THICKNESS: 1.6mm
  - 9 - SHIELD LATCHES: AVOID TO ROUTE  
TRACES OR TO PLACE ANY VIAS OR PADS  
BELOW THESE LATCHES
  - 10 - INSCRIPTION MARKED BY LASER:  
UL LOGO  
1st : MOLEX  
2st : P/N (SEE BOM)  
3rd : DATE CODE(WEEK/YEAR)

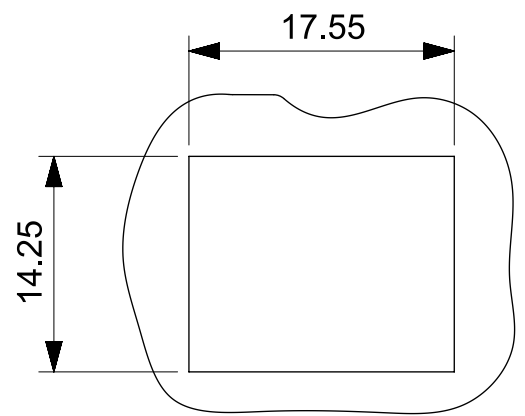
SCALE 1:1



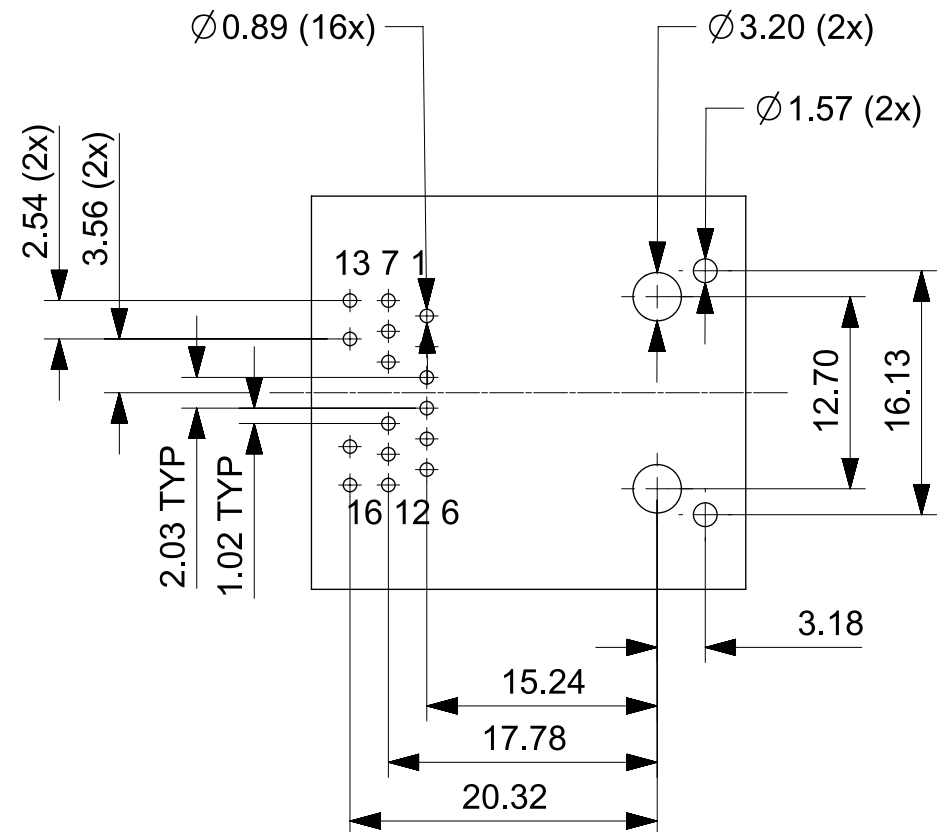
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |            |         |                             |                                                                                                                                                                                                                      |                           |                                                                                   |                                  |                     |                     |                            |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------|--|------------|---------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------------------------------------------------------------|----------------------------------|---------------------|---------------------|----------------------------|--|--|--|
| EC DESCRIPTION<br>EC NO: 100714<br>DRWN: MFURKEL<br>CHK'D:<br>A2                                                              |  | 2015/07/08 | RSILLER | QUALITY SYMBOLS             | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)<br><br>ANGULAR TOL ± 0.5 °<br><br>4 PLACES ±<br>3 PLACES ±<br>2 PLACES ± 0.25<br>1 PLACE ± 0.5<br>0 PLACES ±<br><br>DRAFT WHERE APPLICABLE<br>MUST REMAIN WITHIN DIMENSIONS | DIMENSION UNITS<br><br>MM | SCALE<br><br>2:1                                                                  | <div>molex</div>                 |                     |                     |                            |  |  |  |
|                                                                                                                               |  |            |         | <div><div>⚠</div> = 0</div> |                                                                                                                                                                                                                      | DRWN BY<br><br>MFURKEL    | DATE<br><br>2015/06/15                                                            |                                  |                     |                     |                            |  |  |  |
|                                                                                                                               |  |            |         | <div><div>⚠</div> = 0</div> |                                                                                                                                                                                                                      | CHK'D BY                  | DATE                                                                              | PRODUCT CUSTOMER DRAWING         |                     |                     |                            |  |  |  |
|                                                                                                                               |  |            |         | <div><div>⚠</div> = 0</div> |                                                                                                                                                                                                                      | APPR BY<br><br>RSILLER    | DATE<br><br>2015/07/02                                                            |                                  |                     |                     |                            |  |  |  |
|                                                                                                                               |  |            |         | <div><div>⚠</div> = 0</div> |                                                                                                                                                                                                                      | DRAWING SIZE<br><br>A3    | THIRD ANGLE PROJECTION<br><div><div><div></div></div><div><div></div></div></div> | DOCUMENT NUMBER<br><br>857931001 | DOC TYPE<br><br>PSD | DOC PART<br><br>000 | SHEET NUMBER<br><br>1 OF 4 |  |  |  |
|                                                                                                                               |  |            |         | <div><div>⚠</div> = 0</div> |                                                                                                                                                                                                                      |                           |                                                                                   |                                  |                     |                     |                            |  |  |  |
|                                                                                                                               |  |            |         | <div><div>⚠</div> = 0</div> |                                                                                                                                                                                                                      |                           |                                                                                   |                                  |                     |                     |                            |  |  |  |
|                                                                                                                               |  |            |         | <div><div>⚠</div> = 0</div> |                                                                                                                                                                                                                      |                           |                                                                                   |                                  |                     |                     |                            |  |  |  |



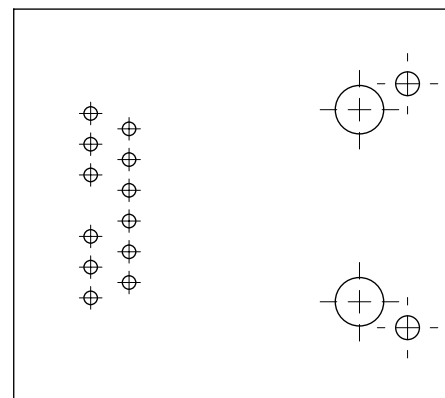
SUGGESTED PANEL CUTOUT

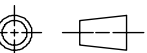


SUGGESTED BOARD LAYOUT- COMPONENT SIDE

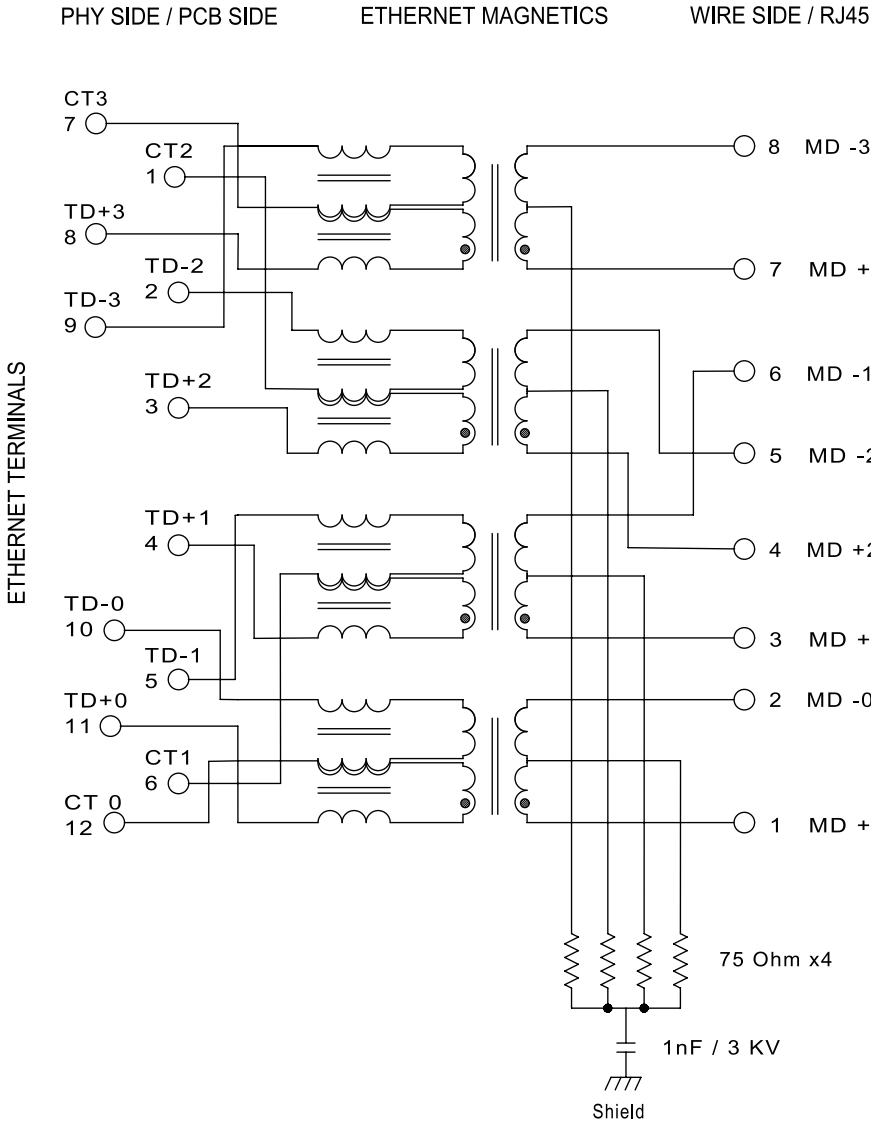
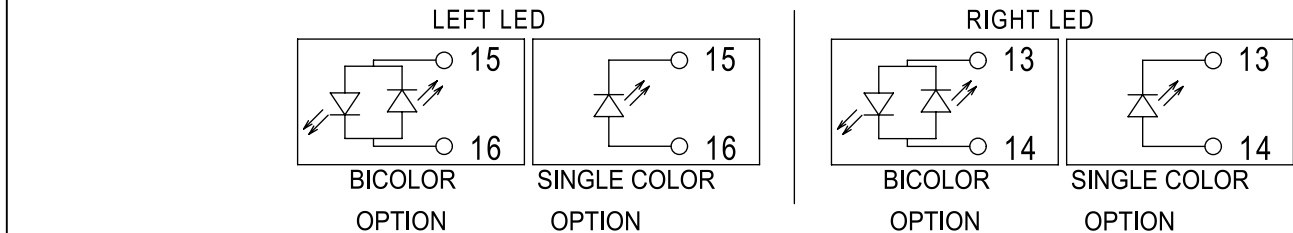


SUGGESTED BOARD LAYOUT FOR NON LED VERSION



| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |            |            |                 |                                       |  |                 |  |                                                                                       |  |                               |  |                    |  |          |  |              |  |
|-------------------------------------------------------------------------------------------------------------------------------|--|------------|------------|-----------------|---------------------------------------|--|-----------------|--|---------------------------------------------------------------------------------------|--|-------------------------------|--|--------------------|--|----------|--|--------------|--|
| EC DESCRIPTION<br>EC NO: 100714<br>DRWN: MFURKEL<br>CHK'D:<br>A2                                                              |  | 2015/07/08 | 2015/07/13 | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) |  | DIMENSION UNITS |  | SCALE                                                                                 |  | molex                         |  |                    |  |          |  |              |  |
|                                                                                                                               |  |            |            |                 |                                       |  | MM              |  | 2:1                                                                                   |  |                               |  |                    |  |          |  |              |  |
|                                                                                                                               |  |            |            |                 |                                       |  | DRWN BY         |  | DATE                                                                                  |  | GIGABIT MAGNETIC JACK 1X1 LED |  |                    |  |          |  |              |  |
|                                                                                                                               |  |            |            |                 |                                       |  | MFURKEL         |  | 2015/06/15                                                                            |  |                               |  |                    |  |          |  |              |  |
|                                                                                                                               |  |            |            |                 |                                       |  | CHK'D BY        |  | DATE                                                                                  |  | PRODUCT CUSTOMER DRAWING      |  |                    |  |          |  |              |  |
|                                                                                                                               |  |            |            |                 |                                       |  | RSILLER         |  | 2015/07/02                                                                            |  |                               |  |                    |  |          |  |              |  |
|                                                                                                                               |  |            |            |                 |                                       |  | APPR BY         |  | DATE                                                                                  |  | SERIES                        |  | MATERIAL NUMBER    |  | CUSTOMER |  |              |  |
|                                                                                                                               |  |            |            |                 |                                       |  | RSILLER         |  | 2015/07/02                                                                            |  | 85793                         |  | SEE BOM/ SHEET 3/4 |  |          |  |              |  |
|                                                                                                                               |  |            |            |                 |                                       |  | DRAWING SIZE    |  | THIRD ANGLE PROJECTION                                                                |  | DOCUMENT NUMBER               |  | DOC TYPE           |  | DOC PART |  | SHEET NUMBER |  |
|                                                                                                                               |  |            |            |                 |                                       |  | A3              |  |  |  | 857931001                     |  | PSD                |  | 000      |  | 2 OF 4       |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                    |  | 4 PLACES   |            | ±               |                                       |  |                 |  |                                                                                       |  |                               |  |                    |  |          |  |              |  |
|                                                                                                                               |  | 3 PLACES   |            | ±               |                                       |  |                 |  |                                                                                       |  |                               |  |                    |  |          |  |              |  |
|                                                                                                                               |  | 2 PLACES   |            | ± 0.25          |                                       |  |                 |  |                                                                                       |  |                               |  |                    |  |          |  |              |  |
|                                                                                                                               |  | 1 PLACE    |            | ± 0.5           |                                       |  |                 |  |                                                                                       |  |                               |  |                    |  |          |  |              |  |
|                                                                                                                               |  | 0 PLACES   |            | ±               |                                       |  |                 |  |                                                                                       |  |                               |  |                    |  |          |  |              |  |
|                                                                                                                               |  | ▽ = 0      |            |                 |                                       |  |                 |  |                                                                                       |  |                               |  |                    |  |          |  |              |  |
|                                                                                                                               |  | ∇ = 0      |            |                 |                                       |  |                 |  |                                                                                       |  |                               |  |                    |  |          |  |              |  |
|                                                                                                                               |  | ◻ = 0      |            |                 |                                       |  |                 |  |                                                                                       |  |                               |  |                    |  |          |  |              |  |
|                                                                                                                               |  | ■ = 0      |            |                 |                                       |  |                 |  |                                                                                       |  |                               |  |                    |  |          |  |              |  |
|                                                                                                                               |  | ◼ = 0      |            |                 |                                       |  |                 |  |                                                                                       |  |                               |  |                    |  |          |  |              |  |

|                                      |                    |                          |
|--------------------------------------|--------------------|--------------------------|
| 9                                    | 8                  | 7                        |
| Electrical Specifications @25°C      |                    |                          |
| Operating temperature (0°C to +70°C) |                    |                          |
| Description                          | VALUE              |                          |
| OCL 8mA bias<br>(0°C to +70°C)       | 350μH min.         |                          |
| Turns Ratio                          | 1CT:1CT            |                          |
| Insertion Loss                       |                    |                          |
| Frequency (MHz)                      | Limits (dB max.)   | Typical Values (dB max.) |
| 1.0-9.9 MHz                          | 0.4+0.1*log(F)     | 0.5 @ 10MHz              |
| 10-49.9 MHz                          | 0.5+0.3*log(F/10)  | 0.7 @ 50MHz              |
| 50-79.9 MHz                          | 1+1.4*log(F/80)    | 1.0 @ 80MHz              |
| 80-100 MHz                           | 1.3+3*log(F/100)   | 1.3 @ 100MHz             |
| Return Loss                          |                    |                          |
| Frequency (MHz)                      | Limits (dB min.)   | TYPICAL Values (dB min.) |
| 1-9.9 MHz                            | 27dB min.          | 27 @ 10MHz               |
| 10-100 MHz                           | 27-17*log(F/10)    | 10 @ 100MHz              |
| CMR                                  |                    |                          |
| Frequency (MHz)                      | Limits (dB min.)   | TYPICAL Values (dB min.) |
| 1-9.9 MHz                            | 34dB min.          | 34 @ 10MHz               |
| 10-79.9 MHz                          | 27dB min.          | 27 @ 80MHz               |
| 80-199.9 MHz                         | 27-14.5*log(F/80)  | 21.5 @ 200MHz            |
| 200-399.9 MHz                        | 21.5-39*log(F/200) | 10 @ 400MHz              |
| 400-1000 MHz                         | 10                 | 10 @ 1000MHz             |
| NEXT                                 |                    |                          |
| Frequency (MHz)                      | Limits (dB min.)   | TYPICAL Values (dB min.) |
| 1-5.9 MHz                            | 50                 | 50 @ 6MHz                |
| 6-49.9 MHz                           | 45-16*log(F/10)    | 34 @ 50MHz               |
| 50-100 MHz                           | 25-30*log(F/100)   | 25 @ 100MHz              |
| Isolation PHY to Wire side           | 2.25kVDC/60sec     |                          |

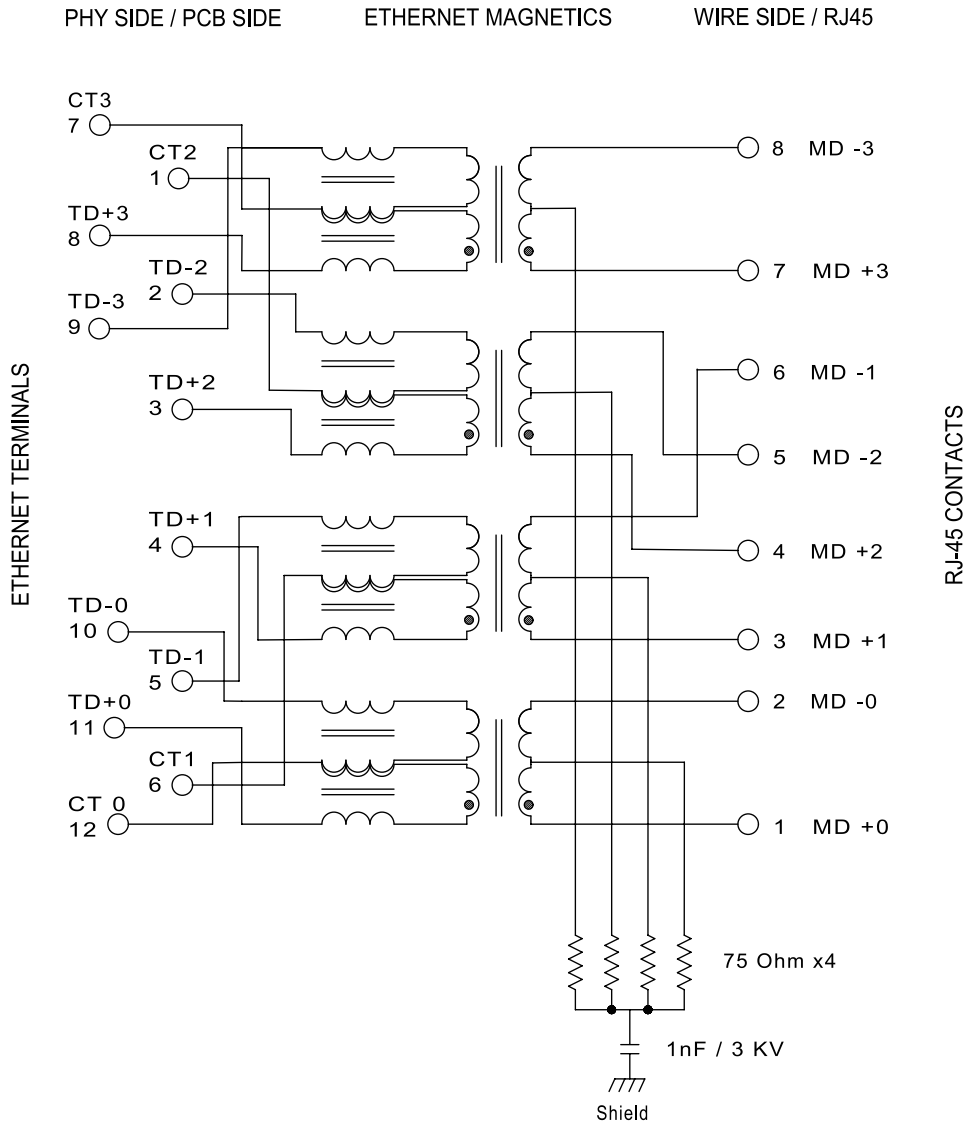


| STANDARD VERSION |               |       |        |               |       |        |
|------------------|---------------|-------|--------|---------------|-------|--------|
| PART NUMBER      | LED1 POLARITY |       |        | LED2 POLARITY |       |        |
|                  | LEFT LED      |       |        | RIGHT LED     |       |        |
|                  | PIN15         | PIN16 | COLOR  | PIN13         | PIN14 | COLOR  |
| 85793-1001       | -             | +     | GREEN  | -             | +     | GREEN  |
| 0°C~+70°C        |               |       |        |               |       |        |
| 85793-1003       | -             | +     | GREEN  | -             | +     | GREEN  |
| 0°C~+70°C        | +             | -     | ORANGE |               |       |        |
| 85793-1006       | -             | +     | GREEN  | -             | +     | YELLOW |
| 0°C~+70°C        |               |       |        |               |       |        |
| 85793-1007       | -             | +     | GREEN  | -             | +     | GREEN  |
| 0°C~+70°C        | +             | -     | YELLOW |               |       |        |
| 85793-1010       | -             | +     | GREEN  | -             | +     | YELLOW |
| 0°C~+70°C        | +             | -     | YELLOW | +             | -     | GREEN  |
| 85793-1012       | -             | +     | YELLOW | -             | +     | GREEN  |
| 0°C~+70°C        | +             | -     | GREEN  |               |       |        |
| 85793-1013       | -             | +     | YELLOW | -             | +     | YELLOW |
| 0°C~+70°C        | +             | -     | GREEN  | +             | -     | GREEN  |
| 85793-1014       | -             | +     | YELLOW | -             | +     | GREEN  |
| 0°C~+70°C        |               |       |        |               |       |        |
| 85793-1020       | NON LED       |       |        |               |       |        |
| 0°C~+70°C        |               |       |        |               |       |        |

ADDITIONAL LED COLORS AND CONFIGURATIONS  
ARE AVAILABLE ON REQUEST

|                                                                                                                               |  |            |            |                 |                                          |                 |  |                                                            |           |                  |     |                        |        |                               |                    |          |          |          |
|-------------------------------------------------------------------------------------------------------------------------------|--|------------|------------|-----------------|------------------------------------------|-----------------|--|------------------------------------------------------------|-----------|------------------|-----|------------------------|--------|-------------------------------|--------------------|----------|----------|----------|
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |            |            |                 |                                          |                 |  |                                                            |           |                  |     |                        |        |                               |                    |          |          |          |
| EC DESCRIPTION<br>EC NO: 100714<br>DRWN: MFURKEL<br>CHK'D:                                                                    |  | 2015/07/08 | 2015/07/13 | QUALITY SYMBOLS | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) | DIMENSION UNITS |  | SCALE                                                      |           | <div>molex</div> |     |                        |        |                               |                    |          |          |          |
|                                                                                                                               |  |            |            |                 |                                          | MM              |  | 5:1                                                        |           |                  |     |                        |        |                               |                    |          |          |          |
|                                                                                                                               |  |            |            |                 |                                          | F = 0           |  | ANGULAR TOL ± 0.5 °                                        |           | DRWN BY          |     | DATE                   |        | GIGABIT MAGNETIC JACK 1X1 LED |                    |          |          |          |
|                                                                                                                               |  |            |            |                 |                                          | F = 0           |  | 4 PLACES ±                                                 |           | MFURKEL          |     | 2015/06/15             |        |                               |                    |          |          |          |
|                                                                                                                               |  |            |            |                 |                                          | F = 0           |  | 3 PLACES ±                                                 |           | CHK'D BY         |     | DATE                   |        |                               |                    |          |          |          |
|                                                                                                                               |  |            |            |                 |                                          | ▼ = 0           |  | 2 PLACES ± 0.25                                            |           | APPR BY          |     | DATE                   |        | PRODUCT CUSTOMER DRAWING      |                    |          |          |          |
|                                                                                                                               |  |            |            |                 |                                          | ▽ = 0           |  | 1 PLACE ± 0.5                                              |           | RSILLER          |     | 2015/07/02             |        |                               |                    |          |          |          |
|                                                                                                                               |  |            |            |                 |                                          | ☒ = 0           |  | 0 PLACES ±                                                 |           | DRAWING SIZE     |     | THIRD ANGLE PROJECTION |        | SERIES                        | MATERIAL NUMBER    |          | CUSTOMER |          |
|                                                                                                                               |  |            |            |                 |                                          | ■ = 0           |  | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |           | A3               |     |                        |        | 85793                         | SEE BOM/ SHEET 3/4 |          |          |          |
|                                                                                                                               |  |            |            |                 |                                          | ▽ = 0           |  |                                                            |           |                  |     |                        |        | DOCUMENT NUMBER               |                    | DOC TYPE |          | DOC PART |
| A2                                                                                                                            |  | REV        |            |                 |                                          |                 |  |                                                            | 857931001 |                  | PSD | 000                    | 3 OF 4 |                               |                    |          |          |          |

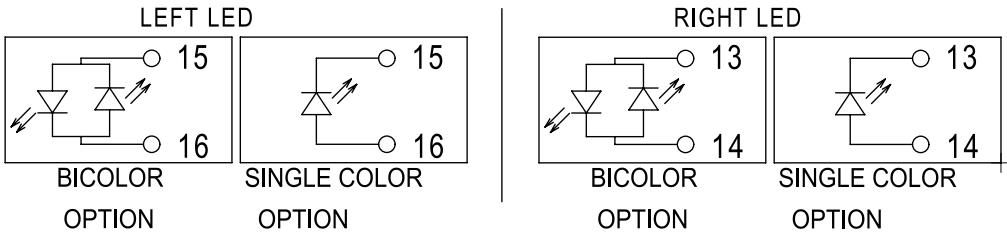
| Electrical Specifications @25°C        |                    |                          |
|----------------------------------------|--------------------|--------------------------|
| Operating temperature (-40°C to +85°C) |                    |                          |
| Description                            | VALUE              |                          |
| OCL 8mA bias<br>(-40°C to +85°C)       | 350µH min.         |                          |
| Turns Ratio                            | 1CT:1CT            |                          |
| Insertion Loss                         |                    |                          |
| Frequency (MHz)                        | Limits (dB max.)   | Typical Values (dB max.) |
| 1.0-9.9 MHz                            | 0.4+0.1*log(F)     | 0.5 @ 10MHz              |
| 10-49.9 MHz                            | 0.5+0.3*log(F/10)  | 0.7 @ 50MHz              |
| 50-79.9 MHz                            | 1+1.4*log(F/80)    | 1.0 @ 80MHz              |
| 80-100 MHz                             | 1.3+3*log(F/100)   | 1.3 @ 100MHz             |
| Return Loss                            |                    |                          |
| Frequency (MHz)                        | Limits (dB min.)   | TYPICAL Values (dB min.) |
| 1-9.9 MHz                              | 27dB min.          | 27 @ 10MHz               |
| 10-100 MHz                             | 27-17*log(F/10)    | 10 @ 100MHz              |
| CMR                                    |                    |                          |
| Frequency (MHz)                        | Limits (dB min.)   | TYPICAL Values (dB min.) |
| 1-9.9 MHz                              | 34dB min.          | 34 @ 10MHz               |
| 10-79.9 MHz                            | 27dB min.          | 27 @ 80MHz               |
| 80-199.9 MHz                           | 27-14.5*log(F/80)  | 21.5 @ 200MHz            |
| 200-399.9 MHz                          | 21.5-39*log(F/200) | 10 @ 400MHz              |
| 400-1000 MHz                           | 10                 | 10 @ 1000MHz             |
| NEXT                                   |                    |                          |
| Frequency (MHz)                        | Limits (dB min.)   | TYPICAL Values (dB min.) |
| 1-5.9 MHz                              | 50                 | 50 @ 6MHz                |
| 6-49.9 MHz                             | 45-16*log(F/10)    | 34 @ 50MHz               |
| 50-100 MHz                             | 25-30*log(F/100)   | 25 @ 100MHz              |
| Isolation PHY to Wire side             | 2.25kVDC/60sec     |                          |

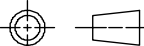


INDUSTRIAL VERSION / HIGH TEMP

|             |   |   |        |   |   |        |
|-------------|---|---|--------|---|---|--------|
| 85793-3006  | - | + | GREEN  | - | + | YELLOW |
| -40°C~+85°C |   |   |        |   |   |        |
| 85793-3007  | - | + | GREEN  | - | + | GREEN  |
| -40°C~+85°C | + | - | YELLOW |   |   |        |

ADDITIONAL LED COLORS AND CONFIGURATIONS  
ARE AVAILABLE ON REQUEST



| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |            |            |                                                                                           |                                                                                                                                                                                                                         |                 |       |                                                                                       |  |                               |  |                    |  |          |  |              |  |
|-------------------------------------------------------------------------------------------------------------------------------|------------|------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------|---------------------------------------------------------------------------------------|--|-------------------------------|--|--------------------|--|----------|--|--------------|--|
| EC DESCRIPTION<br>EC NO: 100714<br>DRWN: MFURKEL<br>CHK'D:<br>APPR: RSILLER                                                   | 2015/07/08 | 2015/07/13 | QUALITY SYMBOLS                                                                           | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)<br><br>ANGULAR TOL ± 0.5 °<br><br>4 PLACES ±<br>3 PLACES ±<br>2 PLACES ± 0.25<br>1 PLACE ± 0.5<br>0 PLACES ±<br><br>DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS | DIMENSION UNITS | SCALE | <div>molex</div>                                                                      |  |                               |  |                    |  |          |  |              |  |
|                                                                                                                               |            |            |                                                                                           |                                                                                                                                                                                                                         | MM              | 5:1   |                                                                                       |  |                               |  |                    |  |          |  |              |  |
|                                                                                                                               |            |            |  = 0 |                                                                                                                                                                                                                         | DRWN BY         |       | DATE                                                                                  |  | GIGABIT MAGNETIC JACK 1X1 LED |  |                    |  |          |  |              |  |
|                                                                                                                               |            |            |  = 0 |                                                                                                                                                                                                                         | MFURKEL         |       | 2015/06/15                                                                            |  |                               |  |                    |  |          |  |              |  |
|                                                                                                                               |            |            |  = 0 |                                                                                                                                                                                                                         | CHK'D BY        |       | DATE                                                                                  |  | PRODUCT CUSTOMER DRAWING      |  |                    |  |          |  |              |  |
|                                                                                                                               |            |            |  = 0 |                                                                                                                                                                                                                         |                 |       |                                                                                       |  |                               |  |                    |  |          |  |              |  |
|                                                                                                                               |            |            |  = 0 |                                                                                                                                                                                                                         | APPR BY         |       | DATE                                                                                  |  | SERIES                        |  | MATERIAL NUMBER    |  | CUSTOMER |  |              |  |
|                                                                                                                               |            |            |  = 0 |                                                                                                                                                                                                                         | RSILLER         |       | 2015/07/02                                                                            |  | 85793                         |  | SEE BOM/ SHEET 3/4 |  |          |  |              |  |
|                                                                                                                               |            |            |  = 0 |                                                                                                                                                                                                                         | DRAWING SIZE    |       | THIRD ANGLE PROJECTION                                                                |  | DOCUMENT NUMBER               |  | DOC TYPE           |  | DOC PART |  | SHEET NUMBER |  |
|                                                                                                                               |            |            |  = 0 |                                                                                                                                                                                                                         | A3              |       |  |  | 857931001                     |  | PSD                |  | 000      |  | 4 OF 4       |  |
| A2                                                                                                                            |            | REV        |                                                                                           |                                                                                                                                                                                                                         |                 |       |                                                                                       |  |                               |  |                    |  |          |  |              |  |