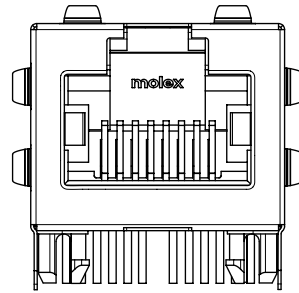
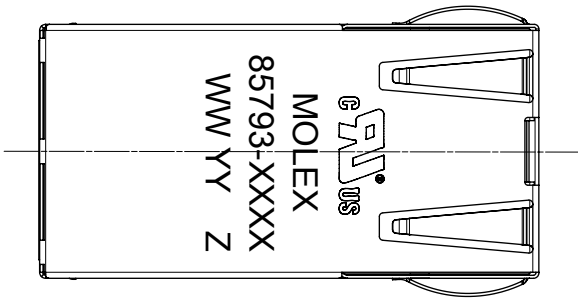
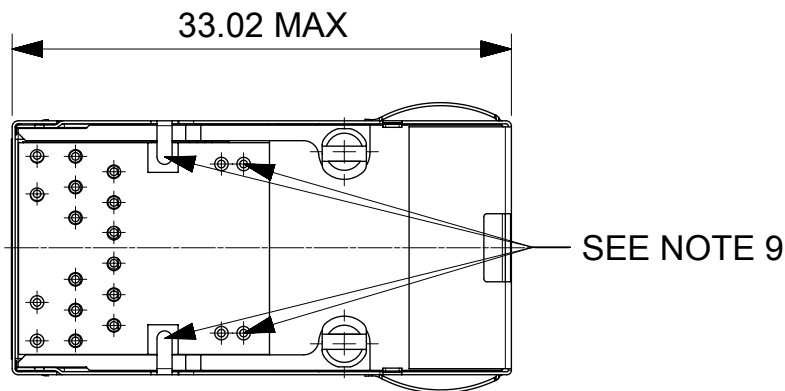
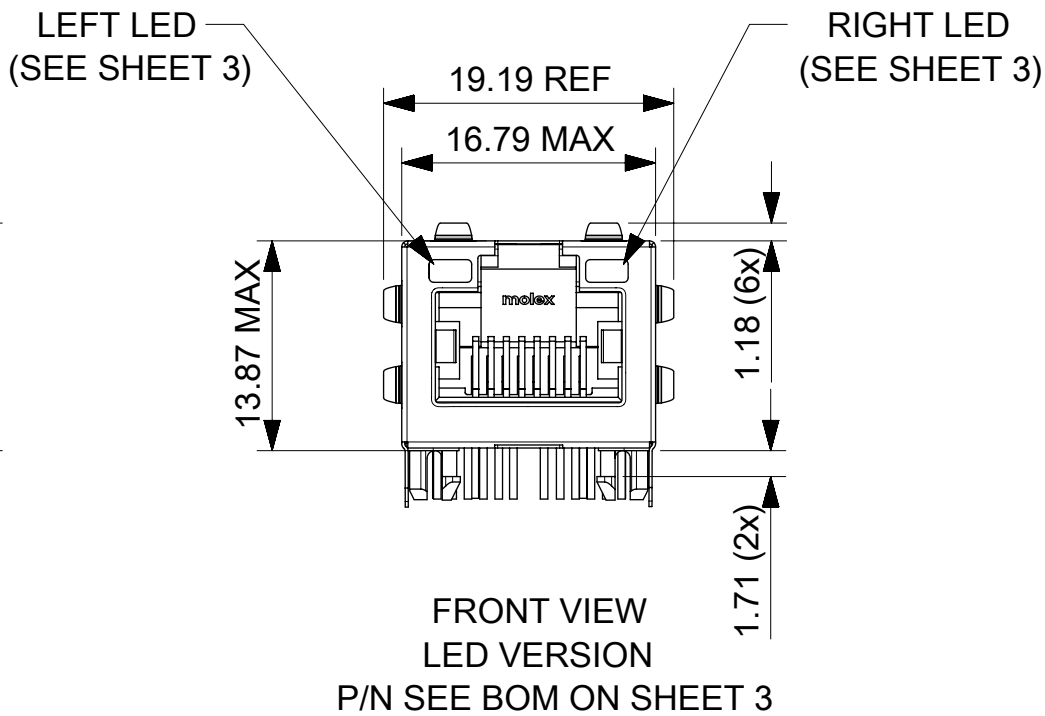
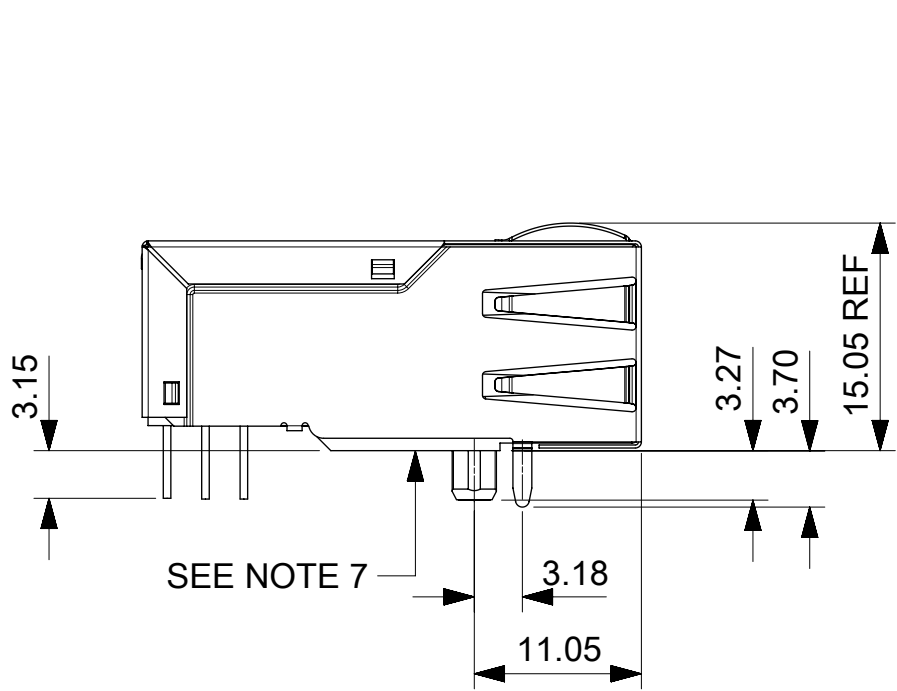


GIGABIT MAGNETIC JACK 1x1 LED

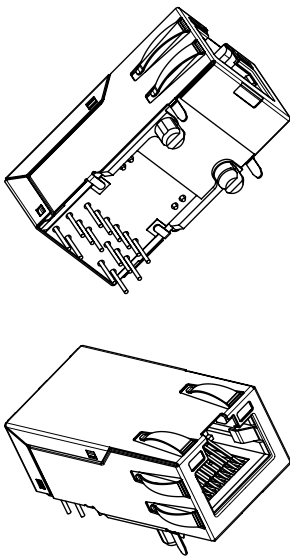


FRONT VIEW  
NON LED VERSION  
P/N 85793-1020

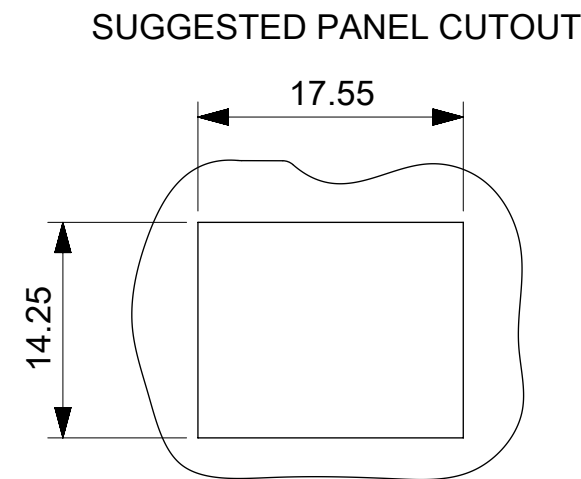
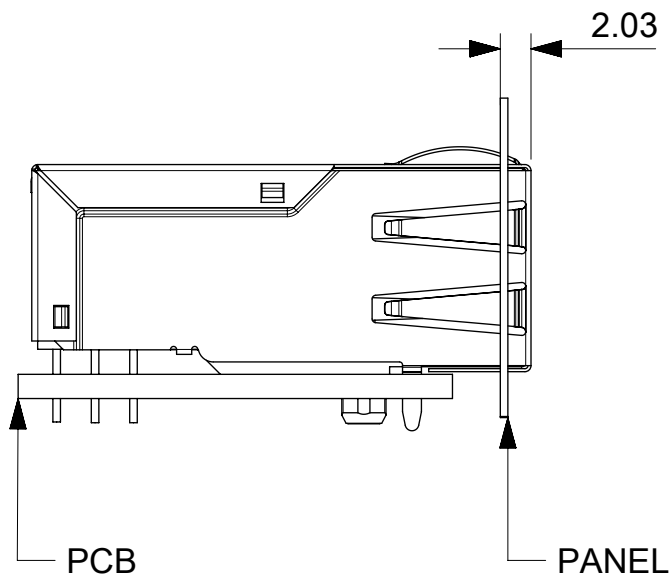


- NOTES:
- 1 - SHIELD MATERIAL: STAINLESS STEEL  
(GROUND PINS ARE SOLDER DIPPED)
  - 2 - PLASTIC MATERIAL: PBT, BLACK, UL 94V-0
  - 3 - RJ45 TERMINALS MATERIAL: COPPER ALLOY  
CONTACT PLATING: 0.76 MICROMETER GOLD  
OVER 1.9 MICROMETER NICKEL  
PHY TERMINALS: TIN PLATED
  - 4 - MATING INTERFACE ACCORDING 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)

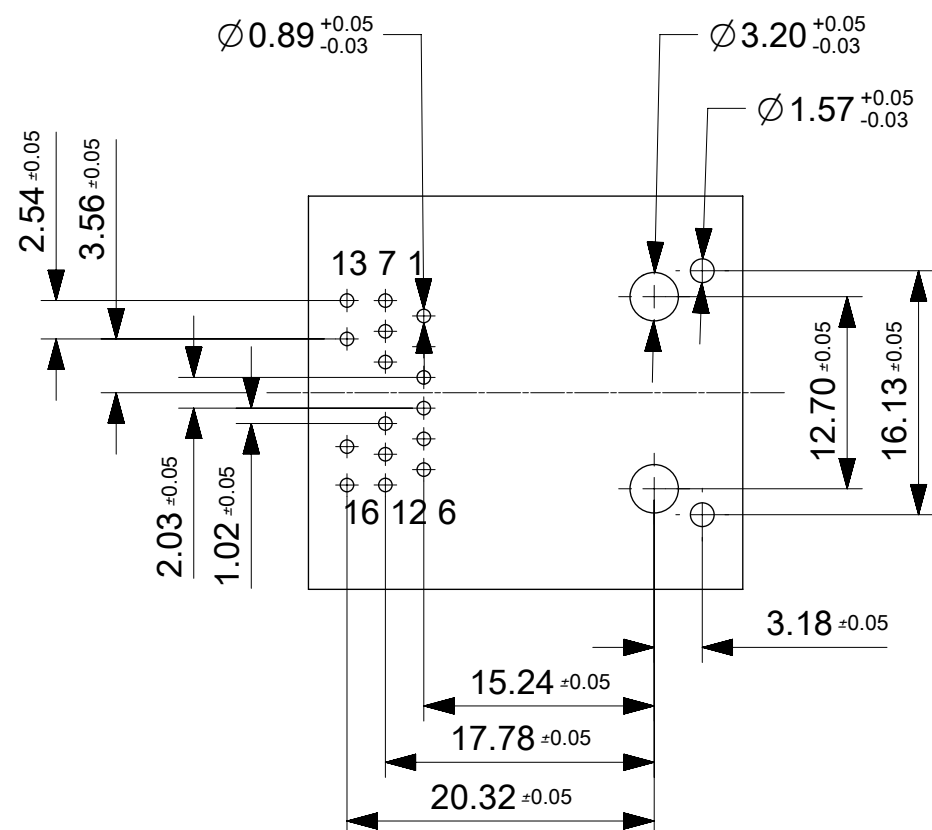
SCALE 1:1



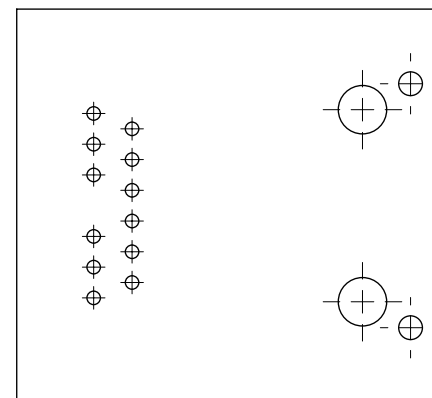
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |     |                 |                                                            |                                       |                     |                 |                        |                          |                 |                    |                               |          |          |  |              |  |
|-------------------------------------------------------------------------------------------------------------------------------|-----|-----------------|------------------------------------------------------------|---------------------------------------|---------------------|-----------------|------------------------|--------------------------|-----------------|--------------------|-------------------------------|----------|----------|--|--------------|--|
| EC DESCRIPTION<br>EC NO: 101432<br>DRWN: MFURKEL<br>CHK'D:<br>APPR:                                                           |     | 2015/09/24      | QUALITY SYMBOLS                                            | GENERAL TOLERANCES (UNLESS SPECIFIED) |                     | DIMENSION UNITS |                        | SCALE                    |                 | <div>molex</div>   |                               |          |          |  |              |  |
|                                                                                                                               |     |                 |                                                            |                                       |                     | MM              | 2:1                    |                          |                 |                    |                               |          |          |  |              |  |
|                                                                                                                               |     |                 |                                                            | = 0                                   | ANGULAR TOL ± 0.5 ° |                 | DRWN BY                |                          | DATE            |                    | GIGABIT MAGNETIC JACK 1X1 LED |          |          |  |              |  |
|                                                                                                                               |     |                 |                                                            | = 0                                   |                     |                 | MFURKEL                |                          | 2015/06/15      |                    |                               |          |          |  |              |  |
|                                                                                                                               |     |                 |                                                            | = 0                                   | 4 PLACES ±          |                 | CHK'D BY               |                          | DATE            |                    |                               |          |          |  |              |  |
|                                                                                                                               | = 0 | 3 PLACES ±      |                                                            | APPR BY                               |                     | DATE            |                        | PRODUCT CUSTOMER DRAWING |                 |                    |                               |          |          |  |              |  |
|                                                                                                                               | = 0 | 2 PLACES ± 0.25 |                                                            |                                       |                     |                 |                        |                          |                 |                    |                               |          |          |  |              |  |
|                                                                                                                               | = 0 | 1 PLACE ± 0.5   |                                                            | RSILLER                               |                     | 2015/07/02      |                        | SERIES                   |                 | MATERIAL NUMBER    |                               | CUSTOMER |          |  |              |  |
|                                                                                                                               | = 0 | 0 PLACES ±      |                                                            |                                       |                     |                 |                        | 85793                    |                 | SEE BOM/ SHEET 3/4 |                               |          |          |  |              |  |
| D                                                                                                                             | REV | APPR:           | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                       | DRAWING SIZE        |                 | THIRD ANGLE PROJECTION |                          | DOCUMENT NUMBER |                    | DOC TYPE                      |          | DOC PART |  | SHEET NUMBER |  |
|                                                                                                                               |     |                 |                                                            |                                       | A3                  |                 |                        |                          | 857931001       |                    | PSD                           |          | 000      |  | 1 OF 4       |  |
|                                                                                                                               |     |                 |                                                            |                                       |                     |                 |                        |                          |                 |                    |                               |          |          |  |              |  |

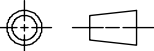


SUGGESTED BOARD LAYOUT- COMPONENT SIDE

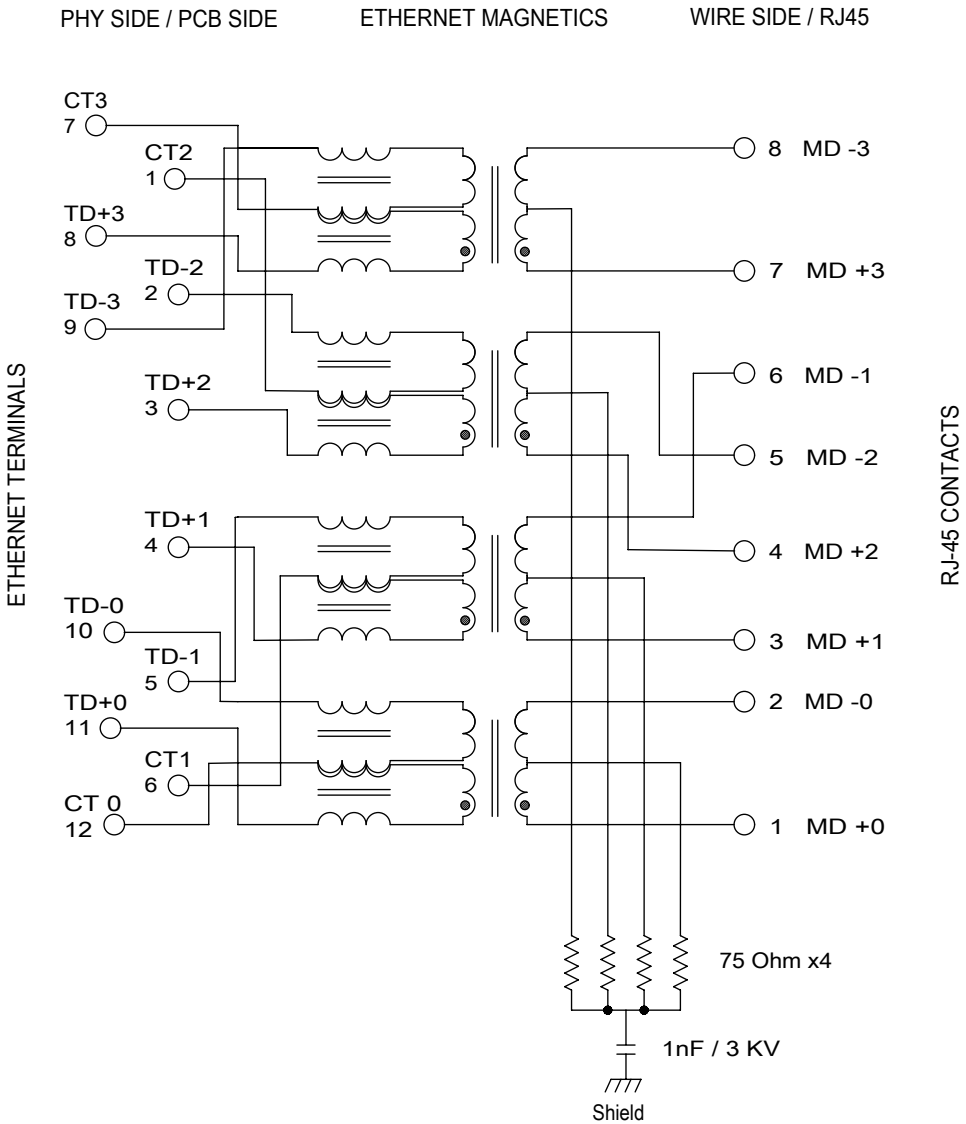
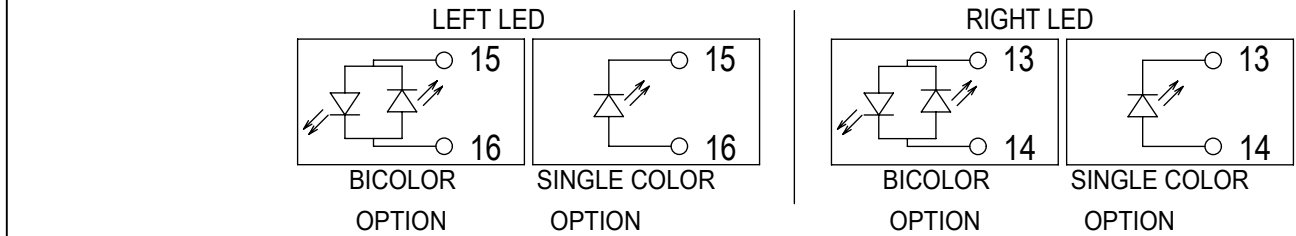


SUGGESTED BOARD LAYOUT FOR NON LED VERSION



| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |            |                 |                                                                                       |                                                                                                                                                                                                                   |  |                 |                          |       |                    |                               |          |  |              |  |  |
|-------------------------------------------------------------------------------------------------------------------------------|--|------------|-----------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------|--------------------------|-------|--------------------|-------------------------------|----------|--|--------------|--|--|
| EC DESCRIPTION<br>EC NO: 101432<br>DRWN: MFURKEL<br>CHK'D:<br>APPR:                                                           |  | 2015/09/24 | QUALITY SYMBOLS |                                                                                       | GENERAL TOLERANCES (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 |                          | SCALE |                    | molex                         |          |  |              |  |  |
|                                                                                                                               |  |            | MM              |                                                                                       |                                                                                                                                                                                                                   |  | 2:1             |                          |       |                    |                               |          |  |              |  |  |
|                                                                                                                               |  |            | DRWN BY         |                                                                                       |                                                                                                                                                                                                                   |  | DATE            |                          |       |                    | GIGABIT MAGNETIC JACK 1X1 LED |          |  |              |  |  |
|                                                                                                                               |  |            | MFURKEL         |                                                                                       |                                                                                                                                                                                                                   |  | 2015/06/15      |                          |       |                    |                               |          |  |              |  |  |
|                                                                                                                               |  |            | CHK'D BY        |                                                                                       |                                                                                                                                                                                                                   |  | DATE            |                          |       |                    |                               |          |  |              |  |  |
| APPR BY                                                                                                                       |  |            |                 | DATE                                                                                  |                                                                                                                                                                                                                   |  |                 | PRODUCT CUSTOMER DRAWING |       |                    |                               |          |  |              |  |  |
| RSILLER                                                                                                                       |  |            |                 | 2015/07/02                                                                            |                                                                                                                                                                                                                   |  |                 | SERIES                   |       | MATERIAL NUMBER    |                               | CUSTOMER |  |              |  |  |
| DRAWING SIZE                                                                                                                  |  |            |                 | THIRD ANGLE PROJECTION                                                                |                                                                                                                                                                                                                   |  |                 | 85793                    |       | SEE BOM/ SHEET 3/4 |                               |          |  |              |  |  |
| A3                                                                                                                            |  |            |                 |  |                                                                                                                                                                                                                   |  |                 | DOCUMENT NUMBER          |       | DOC TYPE           |                               | DOC PART |  | SHEET NUMBER |  |  |
|                                                                                                                               |  |            |                 |                                                                                       |                                                                                                                                                                                                                   |  |                 | 857931001                |       | PSD                |                               | 000      |  | 2 OF 4       |  |  |
| D                                                                                                                             |  | REV        |                 |                                                                                       |                                                                                                                                                                                                                   |  |                 |                          |       |                    |                               |          |  |              |  |  |

|                                      |                    |                          |
|--------------------------------------|--------------------|--------------------------|
| 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 |
| 857931001        | -             | +     | GRN   | -             | +     | GRN   |
| 0°C~+70°C        |               |       |       |               |       |       |
| 857931003        | -             | +     | GRN   | -             | +     | GRN   |
| 0°C~+70°C        | +             | -     | ORG   |               |       |       |
| 857931006        | -             | +     | GRN   | -             | +     | YW    |
| 0°C~+70°C        |               |       |       |               |       |       |
| 857931007        | -             | +     | GRN   | -             | +     | GRN   |
| 0°C~+70°C        | +             | -     | YW    |               |       |       |
| 857931010        | -             | +     | GRN   | -             | +     | YW    |
| 0°C~+70°C        | +             | -     | YW    | +             | -     | GRN   |
| 857931012        | -             | +     | YW    | -             | +     | GRN   |
| 0°C~+70°C        | +             | -     | GRN   |               |       |       |
| 857931013        | -             | +     | YW    | -             | +     | YW    |
| 0°C~+70°C        | +             | -     | GRN   | +             | -     | GRN   |
| 857931014        | -             | +     | YW    | -             | +     | GRN   |
| 0°C~+70°C        |               |       |       |               |       |       |
| 857931020        | 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: 101432<br>DRWN: MFURKEL<br>CHK'D:<br>APPR:                                                           |     | 2015/09/24 | QUALITY SYMBOLS | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) | DIMENSION UNITS                                            |                        | SCALE |                 | <div>molex</div> |                 |          |                               |  |  |  |  |  |
|                                                                                                                               |     |            |                 |                                          | MM                                                         | 5:1                    |       |                 |                  |                 |          |                               |  |  |  |  |  |
|                                                                                                                               |     |            |                 |                                          | DRWN BY                                                    |                        | DATE  |                 |                  |                 |          |                               |  |  |  |  |  |
|                                                                                                                               |     |            |                 |                                          | = 0                                                        | ANGULAR TOL ± 0.5 °    |       | MFURKEL         |                  | 2015/06/15      |          | GIGABIT MAGNETIC JACK 1X1 LED |  |  |  |  |  |
|                                                                                                                               |     |            |                 |                                          | = 0                                                        |                        |       | CHK'D BY        |                  | DATE            |          |                               |  |  |  |  |  |
|                                                                                                                               |     |            |                 |                                          | = 0                                                        | 4 PLACES               | ±     | RSILLER         |                  | 2015/07/02      |          |                               |  |  |  |  |  |
|                                                                                                                               |     |            |                 |                                          | = 0                                                        | 3 PLACES               | ±     | SERIES          |                  | MATERIAL NUMBER |          | CUSTOMER                      |  |  |  |  |  |
|                                                                                                                               | = 0 | 2 PLACES   | ± 0.25          | 85793                                    |                                                            | SEE BOM/ SHEET 3/4     |       |                 |                  |                 |          |                               |  |  |  |  |  |
|                                                                                                                               | = 0 | 1 PLACE    | ± 0.5           | DRAWING SIZE                             |                                                            | THIRD ANGLE PROJECTION |       | DOCUMENT NUMBER |                  | DOC TYPE        | DOC PART | SHEET NUMBER                  |  |  |  |  |  |
|                                                                                                                               | = 0 | 0 PLACES   | ±               |                                          |                                                            |                        |       | 857931001       |                  | PSD             | 000      | 3 OF 4                        |  |  |  |  |  |
| D                                                                                                                             |     | REV        |                 | = 0                                      | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                        | A3    |                 |                  |                 |          |                               |  |  |  |  |  |



## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

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