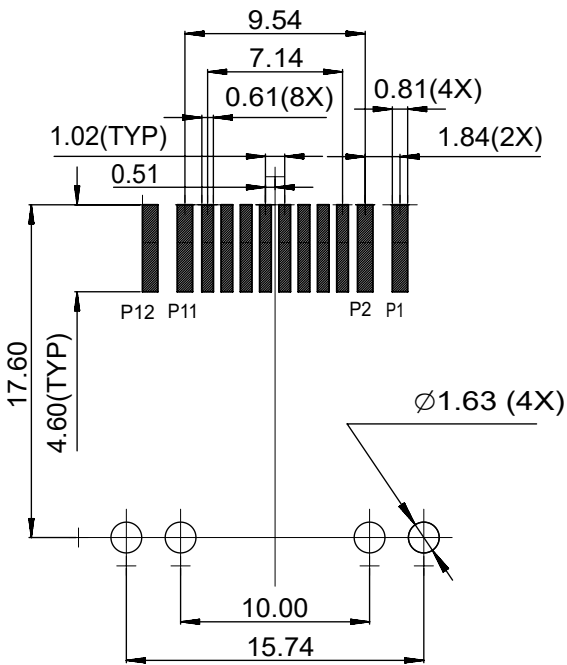
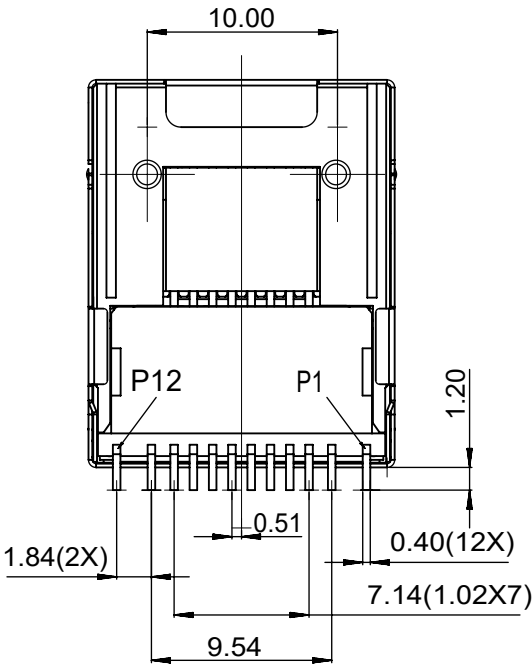
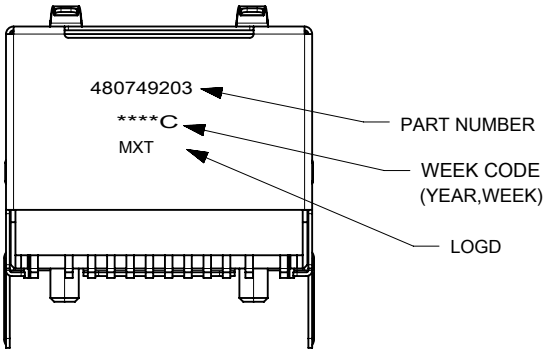
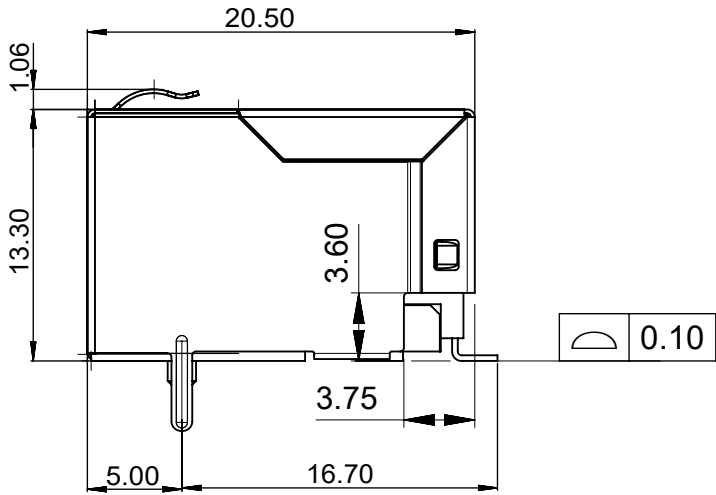
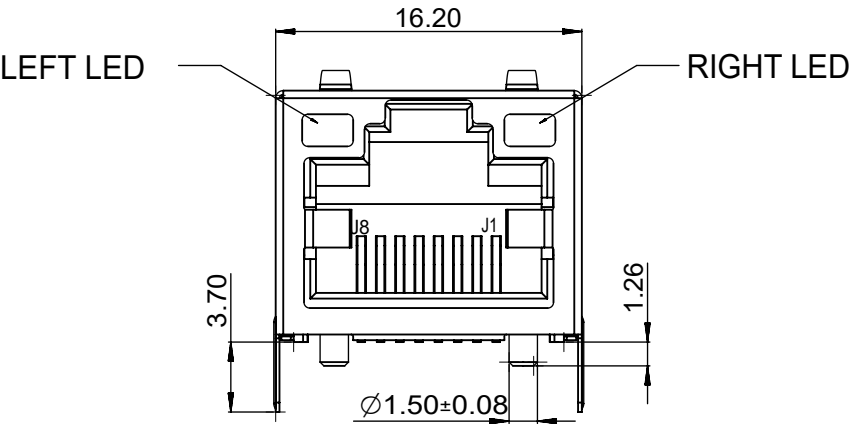
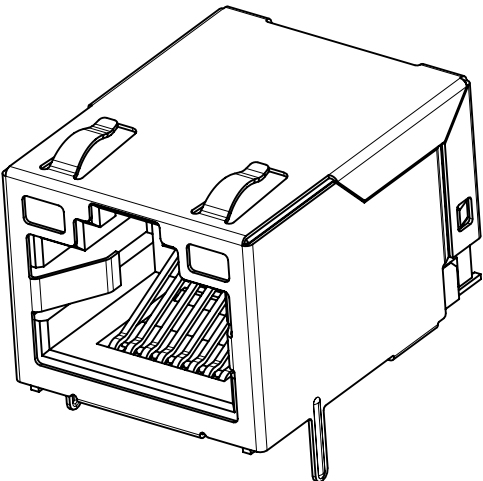


MECHANICAL DEMENSION



RECOMMENDED PCB LAYOUT
ALL DIMENSION TOLERANCE ARE ±0.05



NOTES:

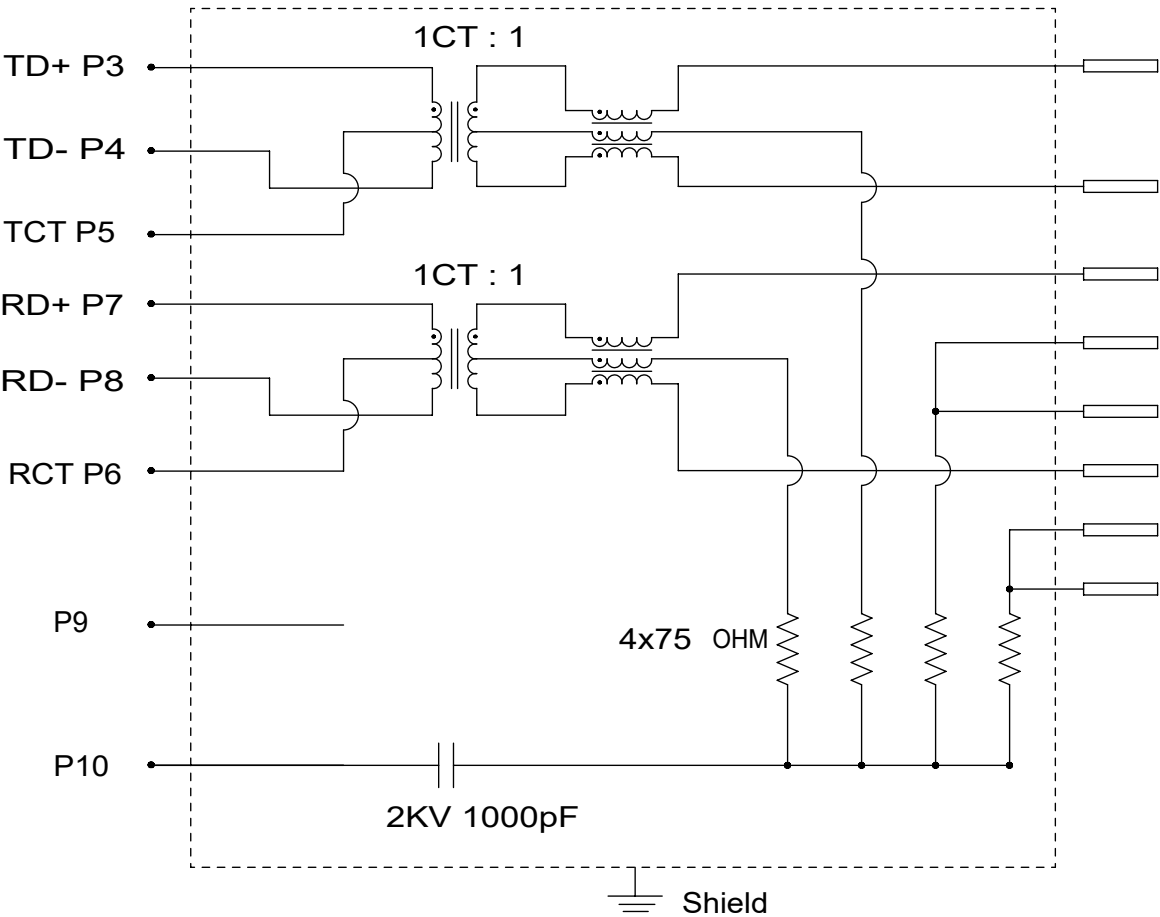
- 1.MATERIAL:
HOUSING: HIGH TEMP THERMOPLASTIC,UL94V-0,COLOR BLACK.
RJ45 TERMINAL: PHOSPHOR BRONZE.
TERMINAL P: BRASS
SHELL: BRASS
- 2.PLATING:
RJ45 TERMINAL:
CONTACT AREA: GOLD(Au),THICKNESS=30 MICROINCH/0.76 MICROMETER MIN.
SOLID TAIL:TIN(Sn), THICKNESS=80 MICROINCH/2.00 MICROMETER MIN.
UNDER PLATE: NICKEL(Ni), THICKNESS=50 MICROINCH/1.27 MICROMETER MIN.
TERMINAL P:
TIN(Sn), THICKNESS=100 MICROINCH/2.54 MICROMETER MIN. OVERALL
SHELL:
SOLDER TAIL: PRE-SOLDER TIN(Sn).
UNDER PLATE: NICKEL(Ni), THICKNESS=50 MICROINCH/1.27 MICROMETER MIN.
- 3.FOR IR REFLOW PROCESS. TIN PLATED AREA.
- 4.RECOMMENDED PCB THICKNESS=1.60±0.05
- 5.PRODUCT SPECIFICATION REFER TO PS-48074-006.
- 6.TEST SUMMARY REFER TO TS-48074-006.
- 7.PACKAGING SPECIFICATION REFER TO PK-48074-101.
- 8.COPLANARITY: 0.10 MAX.
- 9.LEAD FREE & RoHS COMPLIANT PRODUCT.



FUNCTIONAL SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC:		molex	
A = 0		mm		1:1		IMPROVED MODULAR JACK INTERGRATED MAGNETICS SMT,LED	
E = 0		GENERAL TOLERANCES (UNLESS SPECIFIED)		4 PLACES ±		PRODUCT CUSTOMER DRAWING	
E = 0		ANGULAR TOL ± 3.0 °		3 PLACES ±		DOCUMENT NUMBER	
DIVISIONAL SYMBOLS		2 PLACES ± 0.25		1 PLACE ± 0.25		RSD-48074-203	
		0 PLACES ±		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		PSD 001 A	
		FIRST ANGLE PROJECTION		DRAWING		SHEET NUMBER	
		A3-SIZE		48074		1 OF 2	

DOCUMENT STATUS	RELEASE DATE
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SCHEMATIC:



PORT P/PROT A

- J1 TX+
- J2 TX-
- J3 RX+
- J4
- J5
- J6 RX-
- J7
- J8

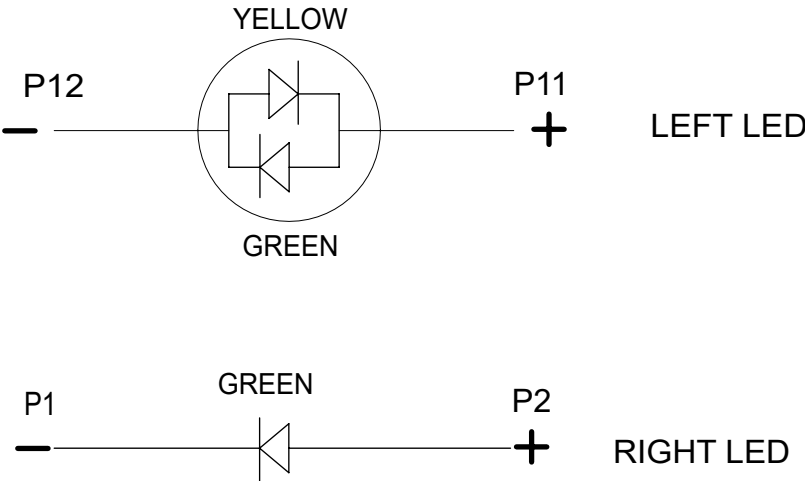
MAGNETIC ELECTRICAL SPECIFICATION

PARAMETER	SPECIFICATIONS		
INSERTION LOSS	100 KHz		
	1.0 dB MAX.		
RETURN LOSS (Z OUT=100 OHM±15%)	1-10 MHz	30 MHz	60-80 MHz
	20 dB MIN	16 dB MIN	12 dB MIN
CROSSTALK	1-10 MHz	30-60 MHz	60-100 MHz
	40 dB MIN	35 dB MIN	30 dB MIN
COMMON MODE REJECTION RATIO	1-50 MHz	50-130 MHz	
	30 dB MIN	20 dB MIN	

HI-POT	(P1-P12 And Shield)Short TO PORT (J1-J8)Short	AC1500V 1.5mA 60SEC
	(P1-P12 And Shield)Short TO PORT (J1-J8)Short	DC2250V 1.5mA 60SEC

LED ELECTRICAL SPECIFICATION

PARAMETER	YELLOW/GREEN		GREEN		UNITS	TEST CONDITIONS
POWER DISSIPATION	60		60		mW	
REVERSE VOLTAGE	5		5		V	
PEAK WAVELENGTH	585~597/564.5~576.5		564.5~576.5		nm	I _F =20mA
FORWARD VOLTAGE	2.1	MAX.=2.5	2.2	MAX.=2.5	V	I _F =20mA



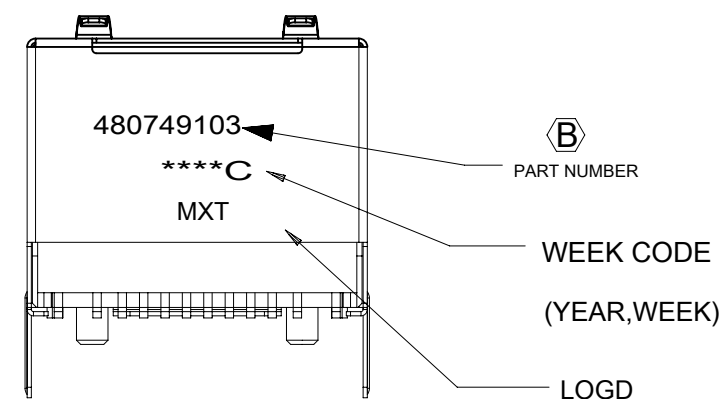
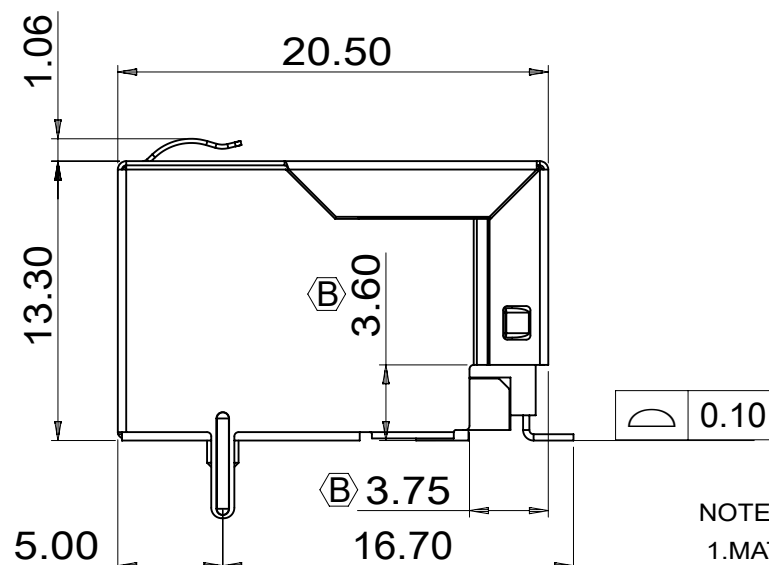
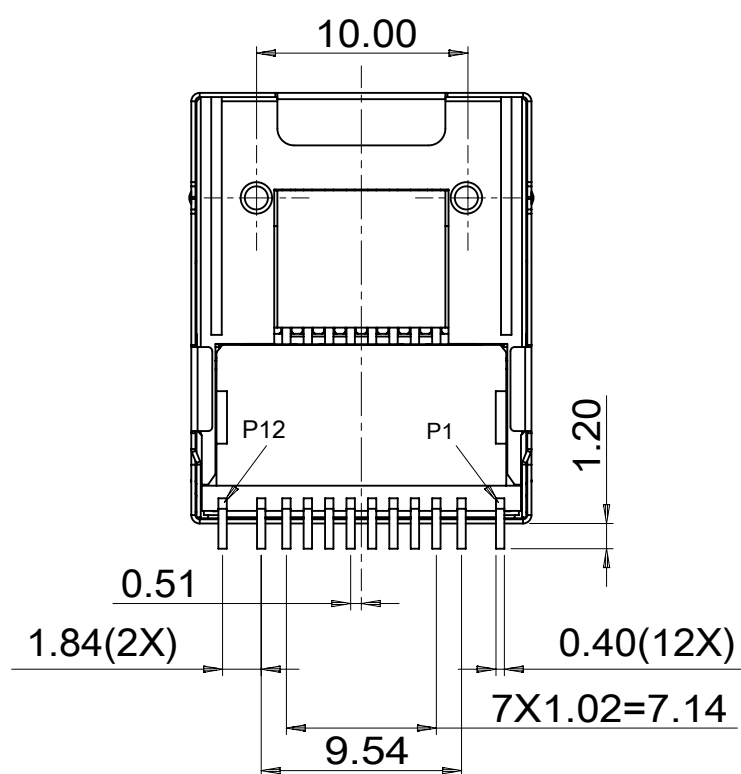
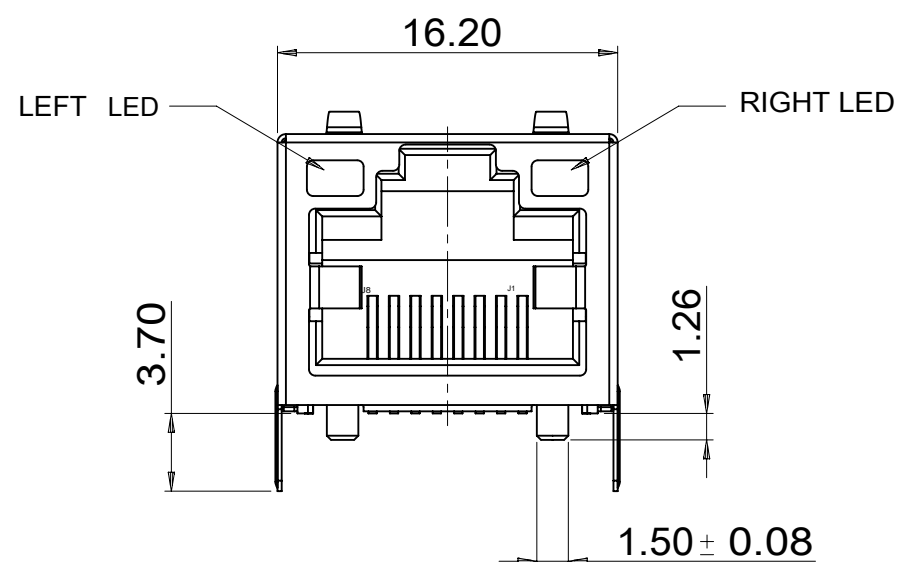
LED SCHEMATIC:



FUNCTIONAL SYMBOLS E/A = 0 E/F = 0 E/P = 0 DIVISIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC:			molex		
	DIMENSION UNITS	SCALE	EC NO: 762427 DRWN: DARIEY 2023/09/11 CHK'D: RLI09 2023/09/25 APPR: RLI09 2023/09/25 INITIAL REVISION: DRWN: JKACHLIC 2016/09/21 APPR: JKACHLIC 2016/10/13			IMPROVED MODULAR JACK INTERGRATED MAGNETICS SMT,LED		
	mm	1:1				PRODUCT CUSTOMER DRAWING		
	GENERAL TOLERANCES (UNLESS SPECIFIED)					DOCUMENT NUMBER		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	ANGULAR TOL	± 3.0 °				RSD-48074-203		
	4 PLACES	±				PSD 001 A		
	3 PLACES	±						
	2 PLACES	± 0.25						
FIRST ANGLE PROJECTION	1 PLACE	± 0.25						
	0 PLACES	±						
DRAWING		SERIES	MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
A3-SIZE		48074			RESTRICTED		2 OF 2	

DOCUMENT STATUS		RELEASE DATE	
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MECHANICAL DEMENSION



NOTES:

1.MATERIAL:

HOUSING:HIGH TEMP THERMOPLASTIC,UL94V-0,COLOR BLACK.

RJ45 TERMINAL:PHOSPHOR BRONZE.

TERMINAL P:BRASS

SHELL:BRASS

2.PLATING:

RJ45 TERMINAL:

CONTACT AREA:GOLD(Au),THICKNESS=30 MICROINCH/0.76 MICROMETER MIN.

SOLID TAIL:TIN(Sn), THICKNESS=80 MICROINCH/2.00 MICROMETER MIN.

UNDER PLATE:NICKEL(Ni), THICKNESS=50 MICROINCH/1.27 MICROMETER MIN.

TERMINAL P:

TIN(Sn), THICKNESS=100 MICROINCH/2.54 MICROMETER MIN. OVERALL

SHELL:

SOLDER TAIL:PRE-SOLDER TIN(Sn).

UNDER PLATE:NICKEL(Ni), THICKNESS=50 MICROINCH/1.27 MICROMETER MIN.

3.FOR IR REFLOW PROCESS. TIN PLATED AREA.

4.RECOMMENDED PCB THICKNESS=1.60±0.05

5.PRODUCT SPECIFICATION REFER TO PS-48074-006.

6.TEST SUMMARY REFER TO TS-48074-006.

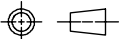
7.PACKAGING SPECIFICATION REFER TO PK-48074-101.

8.COPLANARITY: 0.10 MAX.

9.LEAD FREE & RoHS COMPLIANT PRODUCT.

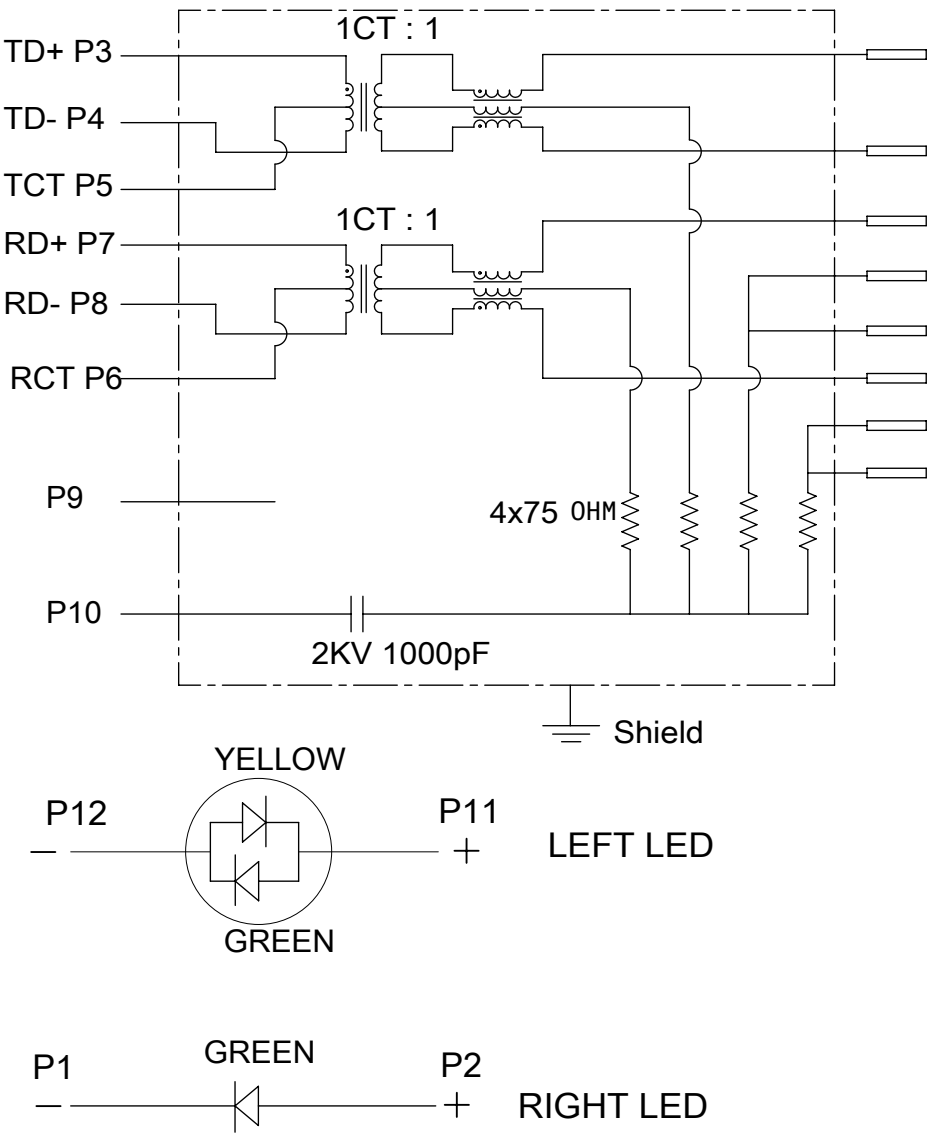
RECOMMENDED PCB LAYOUT
ALL DIMENSION TOLERANCE ARE ± 0.05

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

EC NO: 762427 DRWN: ME CHK'D: RL109 APPR: RL109	2018/08/20 2023/09/25 2023/09/25	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS		SCALE		molex®					
				mm									
		ANGULAR TOL ± 3.0 °		DRWN BY		DATE		IMPROVED MODULAR JACK INTERGRATED MAGNETICS SMT,LED					
				FYANG05		2014/09/23							
		4 PLACES ±		CHK'D BY		DATE		PRODUCT CUSTOMER DRAWING					
		3 PLACES ±											
		2 PLACES ± 0.25		APPR BY		DATE							
		1 PLACE ± 0.25		RZHANG		2015/03/12							
		0 PLACES ±		DRAWING SIZE		THIRD ANGLE PROJECTION		SERIES		MATERIAL NUMBER		CUSTOMER	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		A3				48074		480749103		GENERAL MARKET	
						DOCUMENT NUMBER		DOC TYPE		DOC PART		SHEET NUMBER	
B		REV				SD-48074-103		PSD		001		1 OF 2	

RELEASE STATUS	P1	RELEASE DATE	2023/09/25	08:22:18
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SCHEMATIC:



PORT P/PROT A

MAGNETIC ELECTRICAL SPECIFICATION

PARAMETER	SPECIFICATIONS		
	100 KHz		
INSERTION LOSS	1.0 dB MAX.		
	1-10 MHz	30 MHz	60-80 MHz
RETURN LOSS (Z OUT=100 OHM15%)	20 dB MIN	16 dB MIN	12 dB MIN
CROSSTALK	1-10 MHz	30-60 MHz	60-100 MHz
	40 dB MIN	35 dB MIN	30 dB MIN
COMMON MODE REJECTION RATIO	1-50 MHz	50-130 MHz	
	30 dB MIN	20 dB MIN	

HI-POT	(P1-P12 And Shield)Short TO PORT (J1-J8)Short	AC1500V 1.5mA 60SEC
	(P1-P12 And Shield)Short TO PORT (J1-J8)Short	DC2250V 1.5mA 60SEC

LED ELECTRICAL SPECIFICATION

PARAMETER	YELLOW/GREEN		GREEN	UNITS	TEST CONDITIONS
POWER DISSIPATION	60		60	mW	
REVERSE VOLTAGE	5		5	V	
PEAK WAVELENGTH	585~597/564.5~576.5		564.5~576.5	nm	IF=20mA
FORWARD VOLTAGE	2.1	MAX.=2.5	2.2	MAX.=2.5	IF=20mA

LED SCHEMATIC:

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																			
EC NO: 762427 DRWN: ME CHK'D: RL109 APPR: RL109	2018/08/20 2023/09/25 2023/09/25	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS		SCALE		molex®											
				mm															
		ANGULAR TOL ± 3.0 °		DRWN BY		DATE		IMPROVED MODULAR JACK INTERGRATED MAGNETICS SMT,LED											
				FYANG05		2014/09/23													
		4 PLACES ±		CHK'D BY		DATE		PRODUCT CUSTOMER DRAWING											
				DATE															
		3 PLACES ±		APPR BY		DATE								SERIES 48074					
				RZHANG		2015/03/12													
		2 PLACES ± 0.25		DRAWING SIZE		THIRD ANGLE PROJECTION		DOCUMENT NUMBER SD-48074-103		DOC TYPE PSD		DOC PART 001		SHEET NUMBER 2 OF 2					
				1 PLACE ± 0.25		A3													
0 PLACES ±																			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS																	
B	REV																		