

Excellent Integrated System Limited

Stocking Distributor

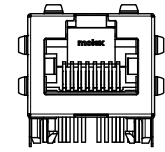
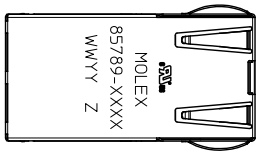
Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Molex Connector Corporation](#)
[0857891001](#)

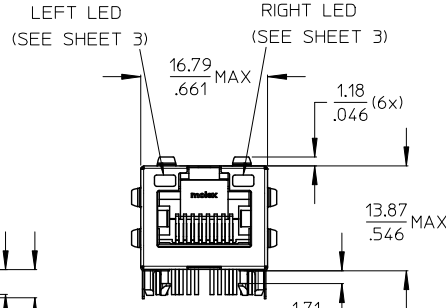
For any questions, you can email us directly:

sales@integrated-circuit.com

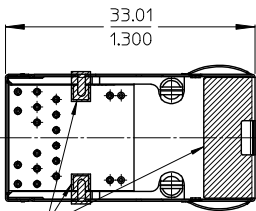
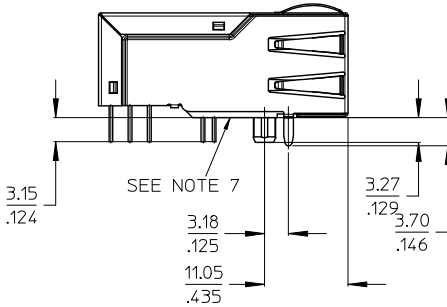
GIGABIT SINGLE PORT MAGNETIC JACK
PoE+ MAGNETICS ACC. TO IEEE802.3at
FOR PSE OR PD APPLICATIONS



FRONT VIEW
NON LED VERSION
P/N 85789-1020



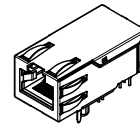
FRONT VIEW
LED VERSION
P/N SEE BOM ON SHEET 3



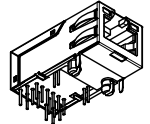
SEE NOTE 9

NOTES:

- 1 - SHIELD MATERIAL: STAINLESS STEEL
(GROUND PINS ARE SOLDER DIPPED)
- 2 - PLASTIC MATERIAL: PBT, BLACK, UL 94V-0
- 3 - TERMINALS MATERIAL: PHOSPOR BRONZE
RJ45 CONTACTS PLATING: 0.76 MICROMETER GOLD
OVER 1.9 MICROMETER NICKEL ON MATING AREA
SOLDER TERMINALS: 3 MICROMETER TIN
- 4 - MATING INTERFACE ACCORDING TO IEC 60603-7
- 5 - PRODUCT SPECIFICATION: PS-85789-001
- 6 - PACKAGING SPECIFICATION: PK-85759-001
- 7 - STAND OFF TO SYSTEM BOARD
- 8 - RECOMMENDED PCB THICKNESS: 1.6mm / 0.067inch
- 9 - SHIELD AND SHIELD LATCHES: AVOID TO ROUTE
TRACES OR TO PLACE ANY VIAS OR PADS IN THIS AREA.
- 10 - INSCRIPTION MARKED BY LASER:
UL LOGO
1st : MOLEX
2st : P/N (SEE BOM)
3rd : DATE CODE(WEEK/YEAR)
Z=> MANUFACTURER CODE



NON LED VERSION



LED VERSION

SCALE 1:1

SCALE 1:1

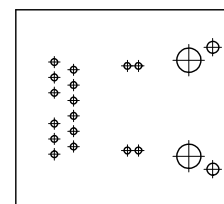
NOTES UPDATE		DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	 THIRD ANGLE PROJECTION
EC NO.				mm	INCH	MM/IN	DATE			
1	DRW:MMANGARUDOV 2014/11/28		▽=0	4 PLACES ±---	±---	DRAWN BY	2010/01/14	2:1	METRIC	GIGABIT MAGNETIC JACK POE PLUS ENABLED 1X1
2	CHKD:BYRNES 2014/12/05		▽=0	3 PLACES ±---	±.010	CHECKED BY	DATE			
3	APPR:SSTEINKE 2014/12/22			2 PLACES ±0.25	±.020	MMANGARUDOV	2010/01/14			
4				1 PLACE ±0.5	±---	APPROVED BY	DATE			
5				0 PLACE ±	±	SSTEINKE	2010/03/09			
				ANGULAR ±.5°		MATERIAL NO.		DOCUMENT NO.		SHEET NO.
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 3/4		SD-85789-001		1 OF 4
						SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		



SUGGESTED BOARD LAYOUT - COMPONENT SIDE



SUGGESTED BOARD LAYOUT
NON LED VERSION

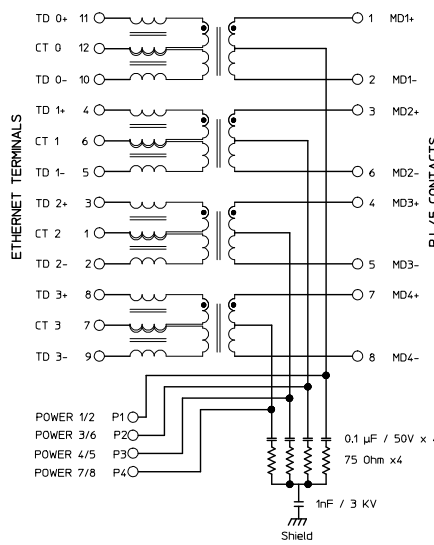


NO CHANGES	EC NO.	2014/11/28	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	DRWN:MMANGARUDOV	2014/12/05			MM/IN		2:1	METRIC			
	CHKCD:OBRYNES	2014/12/05			DRAWN BY	DATE	TITLE	GIGABIT MAGNETIC JACK POE PLUS ENABLED 1X1			
	APPR:SSTE INKE	2014/12/22			CHECKED BY	DATE					
					APPROVED BY	DATE					
				0 PLACE	±	±	SSTE INKE	2010/03/09	molex		
					ANGULAR ± .5°		MATERIAL NO.	DOCUMENT NO.	SD-85789-001		SHEET NO. 2 OF 4
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 3/4				
							SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

10 9 8 7 6 5 4 3 2 1

Electrical Specifications @25°C		
Operating temperature (0°C to +70°C)		
Description	Value	
OC L POE+TRANSF. 20mA bias (0°C to +70°C)	350H min.	
OC L NONPOE TRANSF. 8mA bias (0°C to +70°C)	350H min.	
Turns Ratio	1CT:1CT	
Insertion Loss		
Frequency (MHz)	Limits (dB max.)	Typical Values (dB min.)
10-9.9 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	

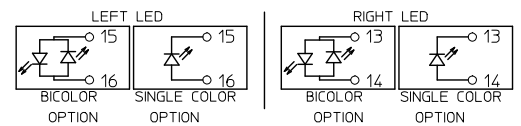
PHY SIDE / PCB SIDE ETHERNET MAGNETICS WIRE SIDE / RJ45



PART NUMBER	LED1 POLARITY			LED2 POLARITY		
	LEFT LED			RIGHT LED		
	PIN15	PIN16	COLOR	PIN13	PIN14	COLOR
85789-1001	-	+	GREEN	-	+	GREEN
85789-1003	-	+	GREEN	-	+	GREEN
	+	-	ORANGE			
85789-1006	-	+	GREEN	-	+	YELLOW
85789-1007	-	+	GREEN	-	+	GREEN
	+	-	YELLOW			
85789-1012	-	+	YELLOW	-	+	GREEN
	+	-	GREEN			
85789-1013	-	+	YELLOW	-	+	YELLOW
	+	-	GREEN	+	-	GREEN
85789-1014	-	+	YELLOW	-	+	GREEN
85789-1015	-	+	YELLOW	-	+	GREEN
	+	-	GREEN			
85789-1017	-	+	GREEN	-	+	YELLOW
	+	-	ORANGE			
85789-1020	NON LED					

ADDITIONAL LED COLORS AND CONFIGURATIONS
AVAILABLE ON REQUEST

SEE TABLE FOR
LED OPTIONS



NO CHANGES	EC NO.	DRAWN BY	DATE	CHKD BY	DATE	APPR. BY	DATE	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	TITLE	DOCUMENT NO.	SHEET NO.
									mm	INCH		MM/IN							
									4 PLACES	± .005	± .005								
									3 PLACES	± .010	± .010								
									2 PLACES	± 0.25	± .020								
									1 PLACE	± 0.5	± .005								
									0 PLACE	±	±								
									ANGULAR ± .5 °										
									DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS										
									SEE BOM										
									THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										

GIGABIT MAGNETIC JACK
POE PLUS ENABLED 1X1

molex

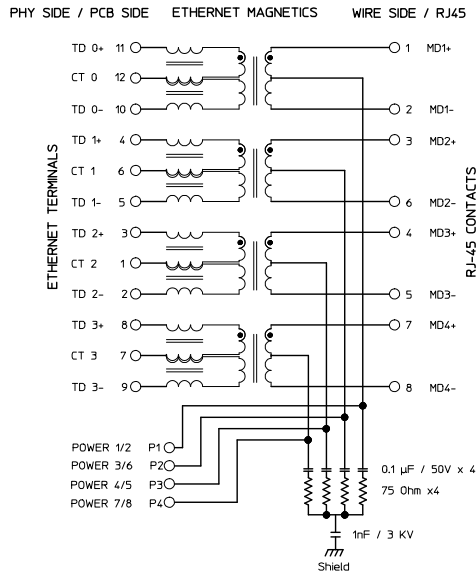
SD-85789-001

3 OF 4

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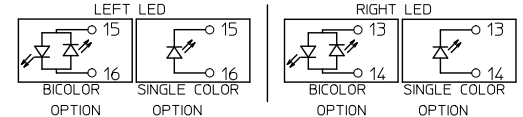
10 9 8 7 6 5 4 3 2 1

Electrical Specifications @25°C		
Operating temperature (-40°C to +85°C)		
Description	Value	
OCL POE+TRANSF, 20mA bias (-40°C to +85°C)	350mH min.	
OCL NONPOE TRANSF, 8mA bias (-40°C to +85°C)	350mH 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
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CMR		
Frequency (MHz)	Limits (dB min.)	TYPICAL Values (dB min.)
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Frequency (MHz)	Limits (dB min.)	TYPICAL Values (dB min.)
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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	2.25VDC/60sec	



PART NUMBER	LED1 POLARITY			LED2 POLARITY		
	LEFT LED			RIGHT LED		
	PIN15	PIN16	COLOR	PIN13	PIN14	COLOR
85789-3006	-	+	GREEN	-	+	YELLOW
85789-3016	-	+	GREEN	+	-	GREEN
	+	-	YELLOW			

ADDITIONAL LED COLORS AND CONFIGURATIONS AVAILABLE ON REQUEST

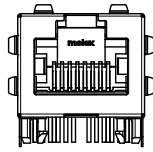
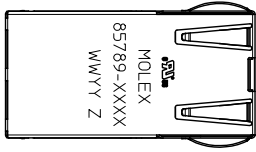


SEE TABLE FOR LED OPTIONS

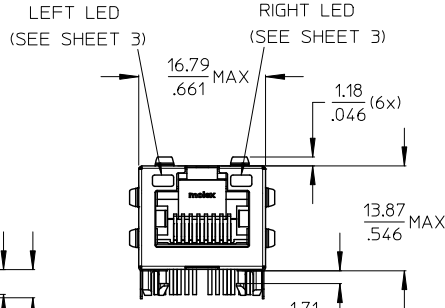
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		DR/MANGARUDOV	2014/11/28	CHK/DBBYNES	2014/12/05	APPR/SSTEINKE	2014/12/22	MM/IN	5:1	METRIC		GIGABIT MAGNETIC JACK POE PLUS ENABLED 1X1		4 OF 4
							4 PLACES ± --- ± ---							
							3 PLACES ± --- ± .010							
							2 PLACES ± 0.25 ± .020							
							1 PLACE ± 0.5 ± ---							
							0 PLACE ± ±							
							ANGULAR ± .5 °							
							DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS							
							SEE BOM							
							THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

9 8 7 6 5 4 3 2 1

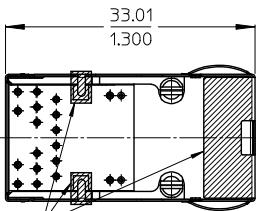
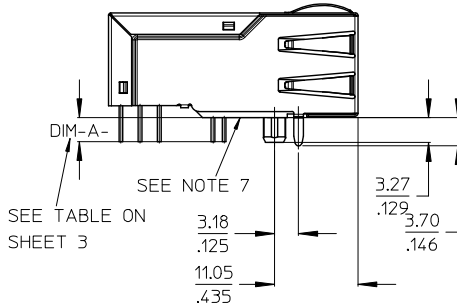
GIGABIT SINGLE PORT MAGNETIC JACK
PoE+ MAGNETICS ACC. TO IEEE802.3at
FOR PSE OR PD APPLICATIONS



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



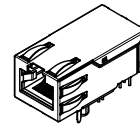
FRONT VIEW
LED VERSION
P/N SEE BOM ON SHEET 3



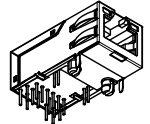
SEE NOTE 9

NOTES:

- 1 - SHIELD MATERIAL: STAINLESS STEEL
(GROUND PINS ARE SOLDER DIPPED)
- 2 - PLASTIC MATERIAL: PBT, BLACK, UL 94V-0
- 3 - TERMINALS MATERIAL: PHOSFOR BRONZE
RJ45 CONTACTS PLATING: 0.76 MICROMETER GOLD
OVER 1.9 MICROMETER NICKEL ON MATING AREA
SOLDER TERMINALS: 3 MICROMETER TIN
- 4 - MATING INTERFACE ACCORDING TO IEC 60603-7
- 5 - PRODUCT SPECIFICATION: PS-85789-001
- 6 - PACKAGING SPECIFICATION: PK-85759-001
- 7 - STAND OFF TO SYSTEM BOARD
- 8 - RECOMMENDED PCB THICKNESS: 1.6mm / 0.067inch
- 9 - SHIELD AND SHIELD LATCHES: AVOID TO ROUTE TRACES OR TO PLACE ANY VIAS OR PADS IN THIS AREA.
- 10 - INSCRIPTION MARKED BY LASER:
UL LOGO
1st : MOLEX
2st : P/N (SEE BOM)
3rd : DATE CODE(WEEK/YEAR)
Z=> MANUFACTURER CODE



NON LED VERSION



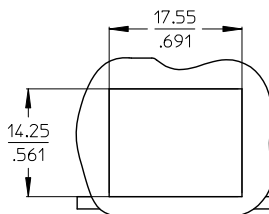
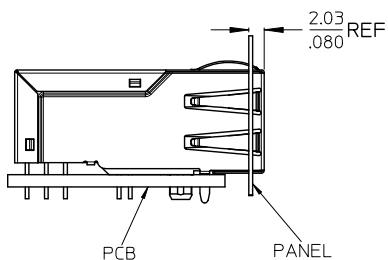
LED VERSION

SCALE 1:1

SCALE 1:1

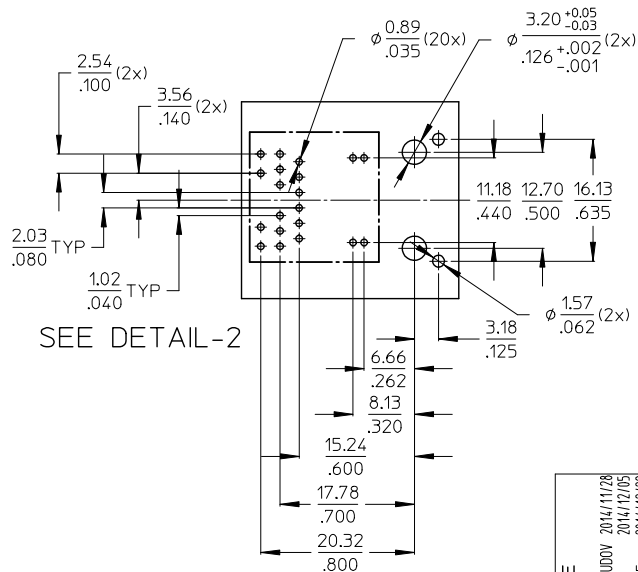
NOTES UPDATE	DESCRIPTION		QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 2:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
	EC NO.	DATE				DRAWN BY	DATE	TITLE			
	DRW:MANGARUDOV	2014/11/28		▽=0	4 PLACES ±---	±---	JBADER	2014/04/25	GIGABIT MAGNETIC JACK POE PLUS ENABLED 1X1		
	CHKD:BYRNES	2014/12/05		▽=0	3 PLACES ±---	±.010	CHECKED BY	DATE			
	APPR:STEINKE	2014/12/22			2 PLACES ±0.25	±.020	MMANGARUDOV	2014/05/05	DOCUMENT NO. SD-85789-401		
					1 PLACE ±0.5	±---	APPROVED BY	DATE			
					0 PLACE ±	±	SSTEINKE	2014/06/11	SHEET NO. 1 OF 3		
					ANGULAR ±.5°		MATERIAL NO.				
					DRAFT WHERE APPLICABLE		SEE SHEET 3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
					WITHIN DIMENSIONS		SIZE A3				

10 9 8 7 6 5 4 3 2 1

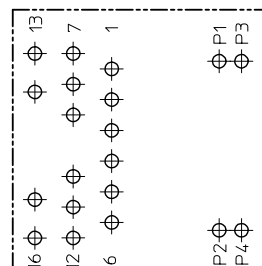


SUGGESTED PANEL CUTOUT

SUGGESTED BOARD LAYOUT - COMPONENT SIDE



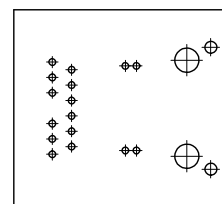
PIN CONFIGURATION



DETAIL-2

SCALE 4:1

SUGGESTED BOARD LAYOUT
NON LED VERSION



NO CHANGE	EC NO.	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	MATERIAL NO.	DOCUMENT NO.	SHEET NO.																																																																																															
B		MMANGARUDOV	2014/11/28	CHKBIBYRNES	2014/12/05	APPR: SSTEINKE	2014/12/22																																																																																																		
<table border="1"> <thead> <tr> <th colspan="2">QUALITY SYMBOLS</th><th colspan="2">GENERAL TOLERANCES (UNLESS SPECIFIED)</th><th colspan="2">DIMENSION STYLE</th><th>SCALE</th><th>DESIGN UNITS</th><th colspan="3">THIRD ANGLE PROJECTION</th></tr> <tr> <th colspan="2"></th><th>mm</th><th>INCH</th><th colspan="2">MM/IN</th><th>2:1</th><th>METRIC</th><th colspan="3"></th></tr> </thead> <tbody> <tr> <td>4 PLACES</td><td>±</td><td>---</td><td>±</td><td>---</td><td></td><td></td><td></td><td colspan="3" rowspan="5">GIGABIT MAGNETIC JACK POE PLUS ENABLED 1X1</td></tr> <tr> <td>3 PLACES</td><td>±</td><td>---</td><td>±</td><td>.010</td><td></td><td></td><td></td></tr> <tr> <td>2 PLACES</td><td>±</td><td>0.25</td><td>±</td><td>.020</td><td></td><td></td><td></td></tr> <tr> <td>1 PLACE</td><td>±</td><td>0.5</td><td>±</td><td>---</td><td></td><td></td><td></td></tr> <tr> <td>0 PLACE</td><td>±</td><td>---</td><td>±</td><td>---</td><td></td><td></td><td></td></tr> <tr> <td colspan="2"></td><td colspan="2">ANGULAR ± .5 °</td><td colspan="2"></td><td></td><td></td><td colspan="3" rowspan="2"> molex SEE SHEET 3 SD-85789-401 </td></tr> <tr> <td colspan="2"></td><td colspan="2">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td><td colspan="2"></td><td></td><td></td></tr> <tr> <td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td></td><td></td><td colspan="3"> THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION </td></tr> </tbody> </table>											QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION					mm	INCH	MM/IN		2:1	METRIC				4 PLACES	±	---	±	---				GIGABIT MAGNETIC JACK POE PLUS ENABLED 1X1			3 PLACES	±	---	±	.010				2 PLACES	±	0.25	±	.020				1 PLACE	±	0.5	±	---				0 PLACE	±	---	±	---						ANGULAR ± .5 °						molex SEE SHEET 3 SD-85789-401					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS														THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
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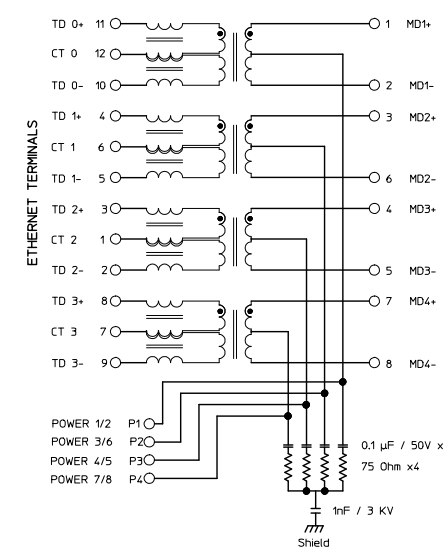
9 8 7 6 5 4 3 2 1

10 9 8 7 6 5 4 3 2 1

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Frequency (MHz)	Limits (dB max.)	Typical Values (dB max.)
10-9.9 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		

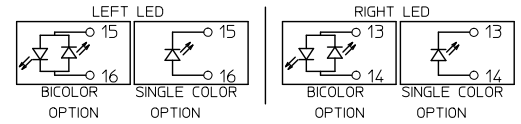
PHY SIDE / PCB SIDE ETHERNET MAGNETICS

WIRE SIDE / RJ45



		LED1 POLARITY			LED2 POLARITY		
PART NUMBER	DIM-A- SHEET 1	LEFT LED			RIGHT LED		
		PIN15	PIN16	COLOR	PIN13	PIN14	COLOR
85789-4008	2.50mm	-	+	GREEN	-	+	GREEN
		+	-	YELLOW	+	-	YELLOW
85789-4020	2.50mm	NON LED					

ADDITIONAL LED COLORS AND CONFIGURATIONS ARE AVAILABLE ON REQUEST



SEE TABLE FOR LED OPTIONS

BOM UPDATE	EC NO: B	DRAWN:MMANGARUDOV 2014/11/28 CHKD:BYRNES 2014/12/05 APPR:STEINKE 2014/12/22	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM/IN		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	TITLE GIGABIT MAGNETIC JACK POE PLUS ENABLED 1X1	DOCUMENT NO. SD-85789-401	SHEET NO. 3 OF 3					
						mm	INCH	DRAWN BY JBADER	DATE 2014/04/25											
					4 PLACES	± ---	± ---	CHECKED BY	DATE											
					3 PLACES	± ---	± .010	MMANGARUDOV	2014/05/05											
					2 PLACES	± 0.25	± .020	APPROVED BY	DATE											
					1 PLACE	± 0.5	± ---	SSTEINKE	2014/06/11											
					0 PLACE	±	±	MATERIAL NO.												
					ANGULAR ± .5 °			SEE BOM												
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS															
								SIZE A		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										