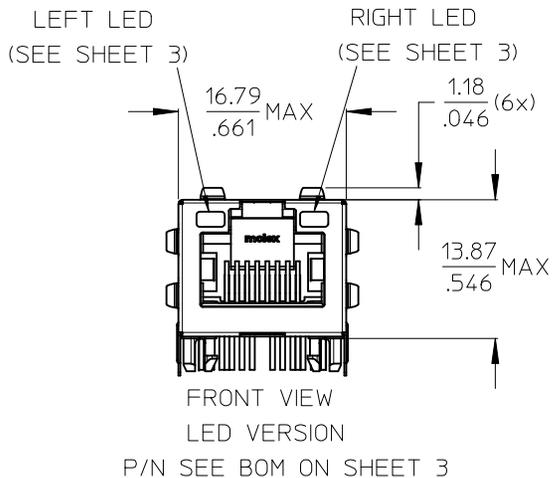
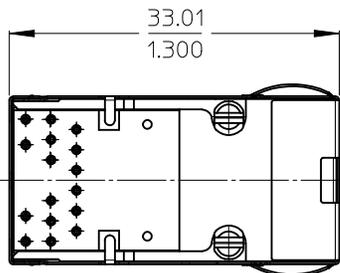
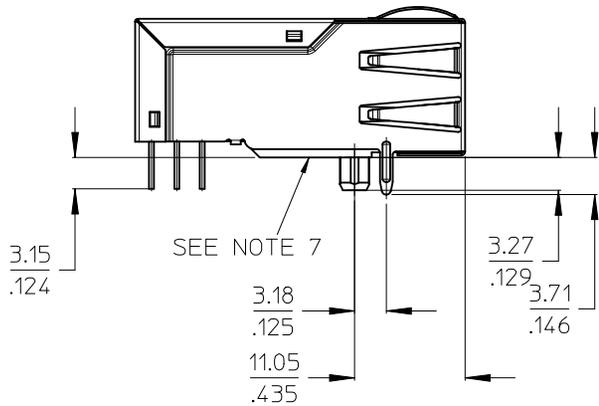
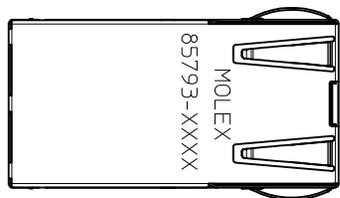
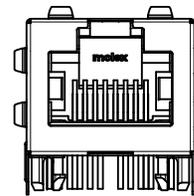


GIGABIT SINGLE PORT MAGNETIC JACK

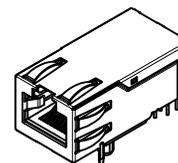


NOTES:

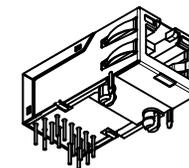
- 1 - SHIELD MATERIAL: STAINLESS STEEL
(GROUND PINS ARE SOLDER DIPPED)
- 2 - PLASTIC MATERIAL: PBT, BLACK, UL 94V-0
- 3 - TERMINALS MATERIAL: PHOSPOR BRONZE
RJ45 CONTACTS PLATING: 0.76MICROMETER GOLD
OVER 1.9MICROMETER NICKEL ON MATING AREA
SOLDER TERMINALS: 3MICROMETER TIN
- 4 - JACK TO BE MATED WITH FCC 68.5 PLUGS /
IEC 60603-7 PLUGS
- 5 - PRODUCT SPECIFICATION: PS-85793-001
- 6 - PACKAGING SPECIFICATION: PK-85759-001
- 7 - STAND OFF TO SYSTEM BOARD



FRONT VIEW
NON LED VERSION
P/N 85793-1020

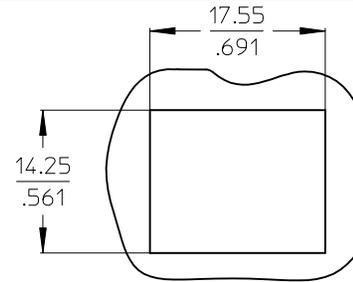
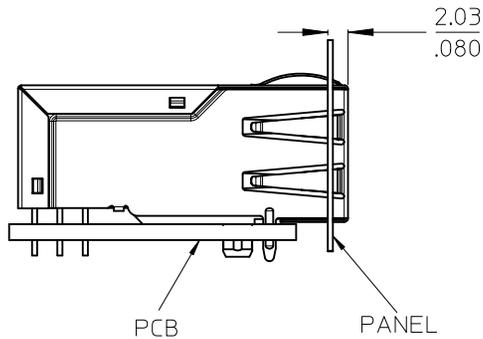


NON LED VERSION
SCALE 1:1



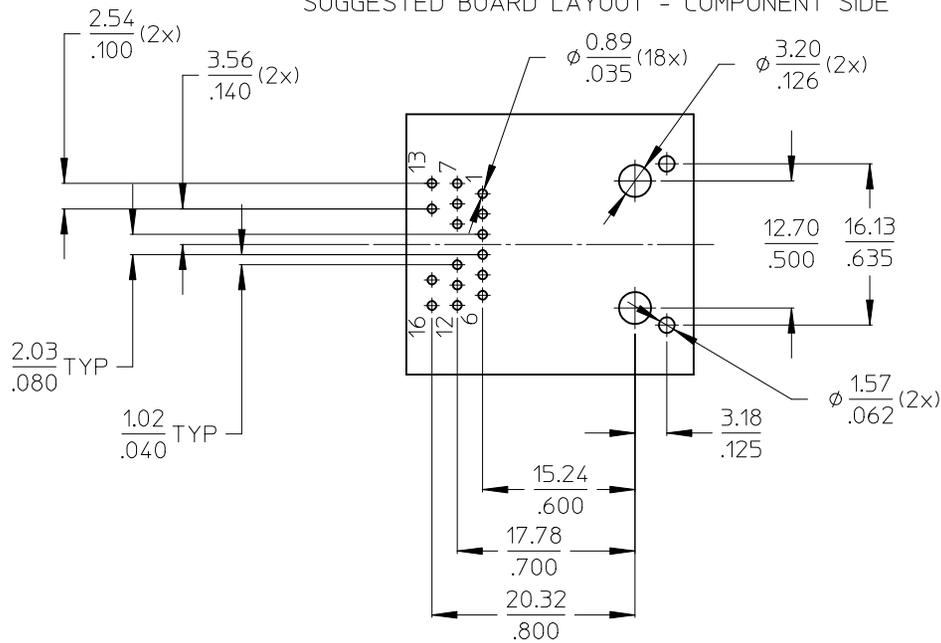
LED VERSION
SCALE 1:1

ENTER DESCRIPTION EC NO: MG2011-0029 2 DRWN:MMANGARUDOV 2010/05/31 CH'KDPTUNN 2010/10/29 APPR:SSSTEINKE 2010/10/29 REV DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.05 ± --- 1 PLACE ± 0.10 ± --- ANGULAR ± .5 °	mm INCH	DRAWN BY JBADER	DATE 2010/04/16	TITLE HYPERJACK 1000 BASE-T 1X1			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE SHEET 3		CHECKED BY MMANGARUDOV	DATE 2010/04/16	MOLEX INCORPORATED		
			MATERIAL NO. SEE SHEET 3		APPROVED BY SSTEINKE	DATE 2010/10/29	DOCUMENT NO. SD-85793-101	SHEET NO. 1 OF 3	

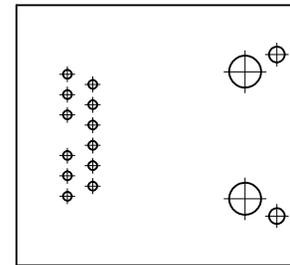


SUGGESTED PANEL CUTOUT

SUGGESTED BOARD LAYOUT - COMPONENT SIDE



SUGGESTED BOARD LAYOUT FOR NON LED VERSION



ENTER DESCRIPTION EC NO: MG2011-0029 DRW:MMANGARUDOV 2010/05/31 CHKD:PTUNN 2010/10/29 APPR:SSTE INKE 2010/10/29	QUALITY SYMBOLS	$\nabla=0$ $\nabla=0$
	REV	

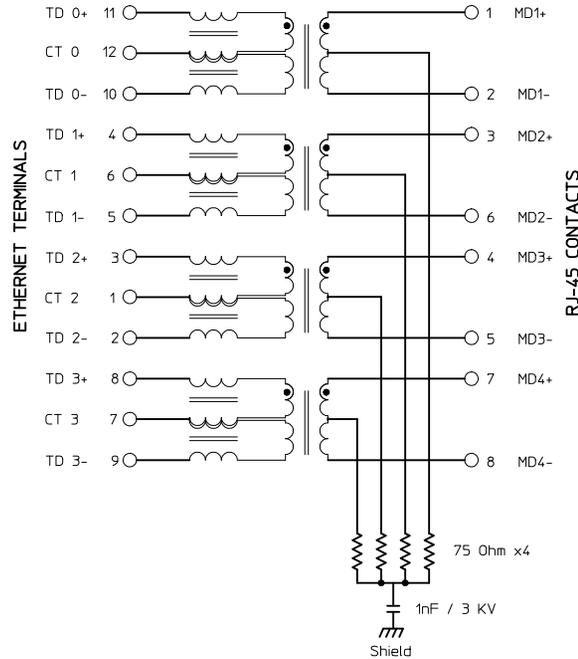
GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
	4 PLACES ± ---	± ---
3 PLACES ± ---	± ---	
2 PLACES ± 0.05	± ---	
1 PLACE ± 0.10	± ---	
ANGULAR ± .5 °		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE MM ONLY	
DRAWN BY JBADER	DATE 2010/04/16
CHECKED BY MMANGARUDOV	DATE 2010/04/16
APPROVED BY SSTE INKE	DATE 2010/10/29
MATERIAL NO.	
SEE SHEET 3	

SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
TITLE HYPERJACK 1000 BASE-T 1X1		
MOLEX INCORPORATED		SHEET NO. 2 OF 3
DOCUMENT NO. SD-85793-101		

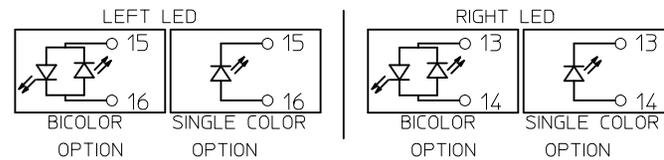
Electrical Specifications @25°C		
Operating temperature 0°C to +70°C		
Description	Value	
OCL (0°C to +70°C)	8mA bias	350µH min.
Turns Ratio	1CT:1CT	
Insertion Loss		
Frequency (MHz)	Limits (dB max.)	Typical Values (dB max.)
10-9.9 MHz	0.4+0.1*log(F)	0.5 @ 10MHz
10-49.9 MHz	0.5+0.3*log(F/10)	0.7 @ 50MHz
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



PART NUMBER	LED1 POLARITY		LED2 POLARITY	
	LEFT LED	RIGHT LED	LEFT LED	RIGHT LED
	PIN15	PIN16 COLOUR	PIN13	PIN14 COLOUR
85793-1001	- +	GREEN	- +	GREEN
85793-1003	- +	GREEN	- +	GREEN
	+ -	ORANGE		
85793-1006	- +	GREEN	- +	YELLOW
85793-1007	- +	GREEN	- +	GREEN
	+ -	YELLOW		
85793-1012	- +	YELLOW	- +	GREEN
	+ -	GREEN		
85793-1013	- +	YELLOW	- +	YELLOW
	+ -	GREEN	+ -	GREEN
85793-1014	- +	YELLOW	- +	GREEN
85793-1020	NON LED			

ADDITIONAL LED COLORS AND CONFIGURATIONS AVAILABLE ON REQUEST



ENTER DESCRIPTION EC NO: MGZ011-0029 DRW:N/MANGARUDOV 2010/05/31 CHKD:PTUNN 2010/10/29 APPR:SSTE INKE 2010/10/29	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
		4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	2 PLACES ± 0.05 ± ---	1 PLACE ± 0.10 ± ---	ANGULAR ± .5 °	DRAWN BY JBADER	DATE 2010/04/16	TITLE HYPERJACK 1000 BASE-T 1X1	
2	REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE BOM	APPROVED BY SSTE INKE	DATE 2010/10/29	MATERIAL NO.	MOLEX INCORPORATED	DOCUMENT NO. SD-85793-101	SHEET NO. 3 OF 3