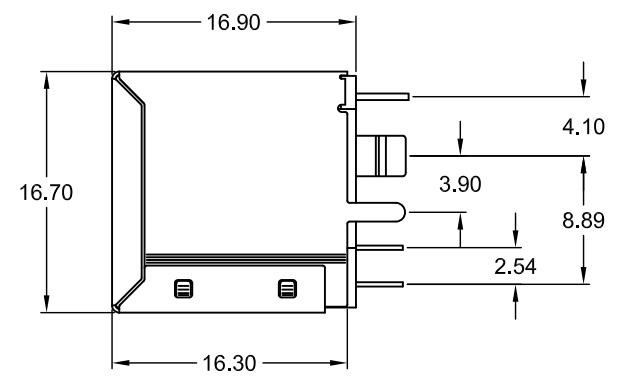
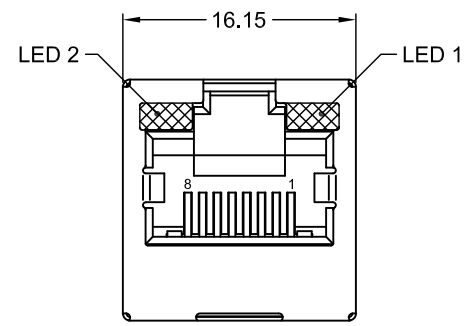
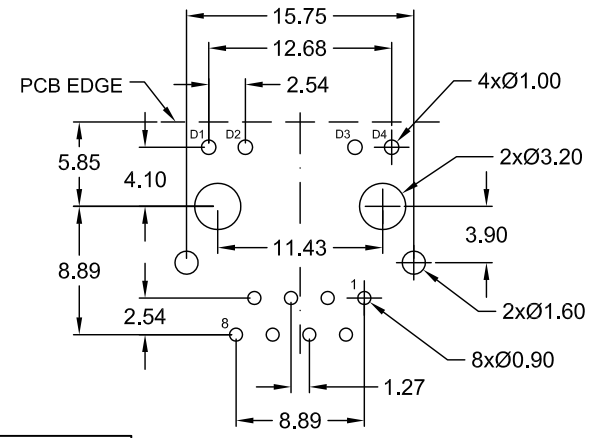
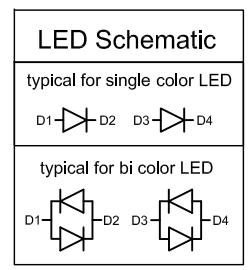
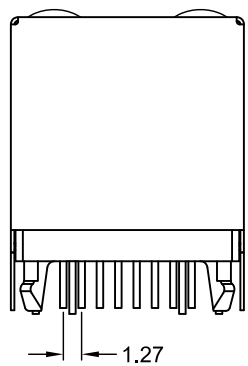
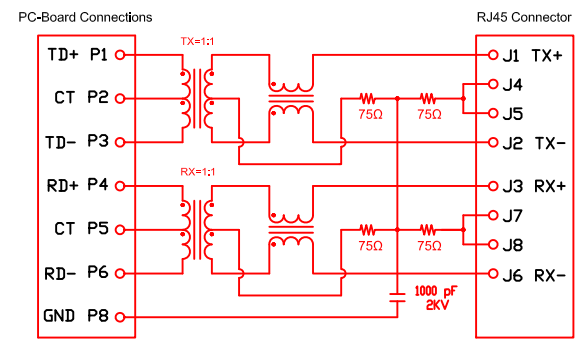


REV.	DESCRIPTION	DRAWN	DATE
A	NEW	Nick	06.07.2009
B	New DWG. No. / LED Polarity	Ronny	01.02.2012



Schematic: "2" Type



Recommended PCB Hole Layout Top View



ELECTRICAL CHARACTERISTICS

- Test Notes: (25°C ±5°C)
- TR: (100KHz 0.1V):
Pins: (P1-P3):(J1-J2)=1:1±3%
Pins: (P4-P6):(J3-J6)=1:1±3%
 - LX: (100KHz 100mV 8mA DC Bias)
Pins: (P1-P3),(P4-P6)=350µH min.
 - DCR:
Pins: (J1-J2),(J3-J6)=1.2Ω max.
 - HIPOT:
Pins: (P1,P2,P3)to(J1,J2)=1500V AC for 60 Sec.
Pins: (P4,P5,P6)to(J3,J6)=1500V AC for 60 Sec.
 - INSERTION LOSS:
-1.0dB max. at 0.3MHz to 100MHz
 - RETURN LOSS:
-20dB min. at 1MHz to 30MHz
-15dB min. at 30MHz to 60MHz
-10dB min. at 60MHz to 80MHz
 - CROSS TALK:
-30dB min. at 1MHz to 100MHz
 - COMMON TO COMMON MODE REJECTION:
-30dB min. at 1MHz to 100MHz

SPECIFICATION

- MATERIAL:
Housing - PBT UL 94V-0 (black)
Contact - 0.35mm PhBz; Au/Sn plated
Shield - Brass; Ni plated
- OPERATING LIFE: 750 Cycles min.
- TEMPERATURE RANGE:
Storage - -40°C to +85°C
Operating - 0°C to 70°C
Cavity conform to FCC Rules and Registration PAR68, Subparts F

PART NUMBER	GOLD PLATING CONTACT AREA
MJT-188-M0S2-95/KxCS	3µ"
MJT-188-M0S2-96/KxCS	6µ"
MJT-188-M0S2-97/KxCS	15µ"
MJT-188-M0S2-98/KxCS	30µ"
MJT-188-M0S2-9H/KxCS	50µ"

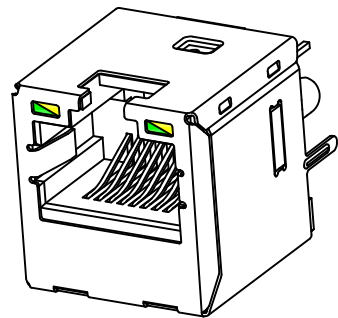
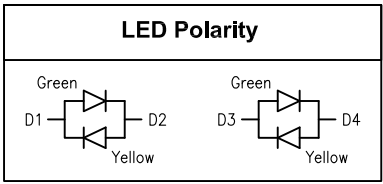
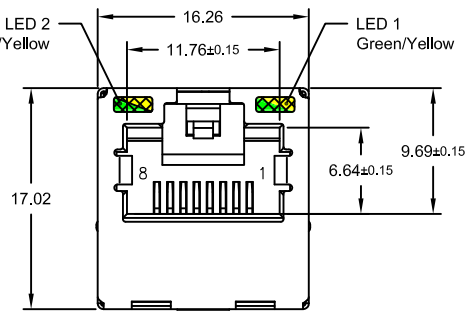
LED Color Options		
	LED 1	LED 2
0	NO LED	NO LED
1	GREEN	YELLOW
2	GREEN	NO LED
3	NO LED	GREEN
4	YELLOW	GREEN
5	GREEN	GREEN
6	YELLOW	YELLOW
7	ORANGE/GREEN	ORANGE/GREEN
8	YELLOW/GREEN	YELLOW/GREEN
9	NO LED	RED
A	GREEN/YELLOW	GREEN/YELLOW
B	RED/GREEN	RED/GREEN
C	GREEN/YELLOW	RED/GREEN
D	GREEN/YELLOW	GREEN
E	GREEN/YELLOW	YELLOW



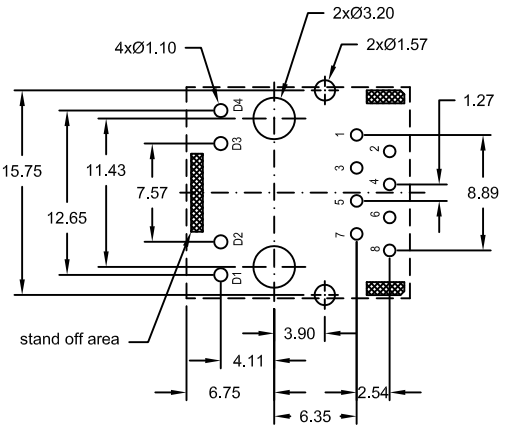
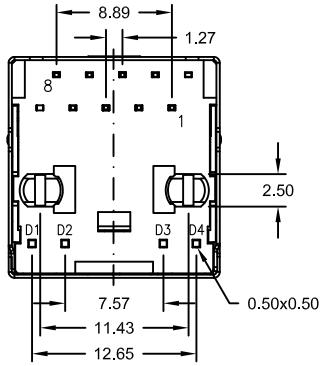
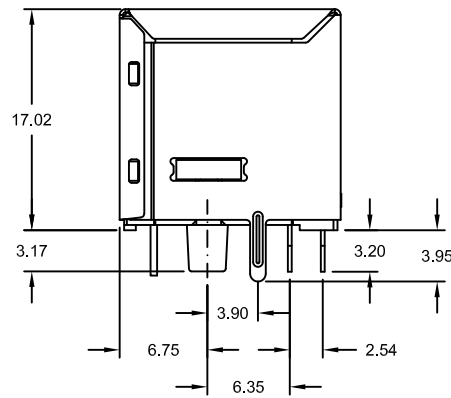
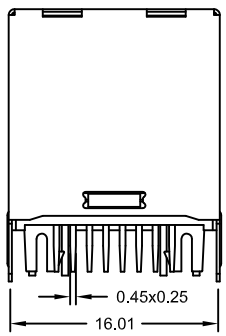
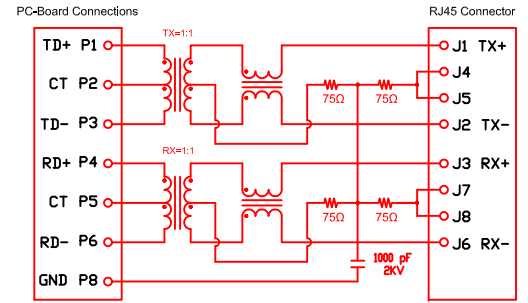
UNIT	GENERAL TOLERANCE		DRAWN	DATE	DWG. NO.	SHEET 1/1
mm	X.° ±	.X ° ±	Nick	06.07.2009	1442500	
SCALE	X. ±	.X ± 0.25	CHECK	DATE	Series NO.	REV. B
Free	XX. ±	.XX ± 0.15	Ronny	01.02.2012	MJT-188-M0S2-xx/KxCS	
	XXX. ±	.XXX ± 0.075	APPROVE	DATE		
			HOGI	01.02.2012		

RJ 45 PCB JACK <8P8C>
TOP ENTRY TYPE with LED
FULLY SHIELDED
2 Type 10/100 Base TX Filtered

REV.	DESCRIPTION	DATE	DRAWN
A	New	17.11.2010	Peter
B	New DWG. No / add LED Pins	01.02.2012	Ronny
C	Material PBT -> LCP	24.07.2012	RH
D	Plug insert area: 6,80 -> 6,64; 9,72 -> 9,69; 11,90 -> 11,76	21.01.2015	Ronny



Schematic: "2" Type



ELECTRICAL CHARACTERISTICS

- Test Notes: (25°C ±5°C)
- TR: (100KHz 0.1V):
Pins: (P1-P3):(J1-J2)=1:1±3%
Pins: (P4-P6):(J3-J6)=1:1±3%
 - LX: (100KHz 100mV 8mA DC Bias)
Pins: (P1-P3):(P4-P6)=350µH min.
 - DCR:
Pins: (J1-J2):(J3-J6)=1.2Ω max.
 - HIPOT:
Pins: (P1-P3)to(J1,J2)=1500V AC for 60 Sec.
Pins: (P4-P6)to(J3,J6)=1500V AC for 60 Sec.
 - INSERTION LOSS:
-1.0dB max. at 1MHz to 100MHz
 - RETURN LOSS (100Ω ±5Ω):
-18dB min. at 1MHz to 30MHz, load 100Ω
-16dB min. at 30MHz to 60MHz, load 100Ω
-12dB min. at 60MHz to 80MHz, load 100Ω
 - CROSS TALK:
-30dB min. at 1MHz to 100MHz
 - COMMON TO COMMON MODE REJECTION:
-30dB min. at 1MHz to 100MHz

SPECIFICATION

- MATERIAL:
Housing - LCP UL 94V-0 (black)
Contact - 0.25mm PhBz; Sn/Au plated
Shield - Brass; Ni plated
- OPERATING LIFE: 750 Cycles min.
- TEMPERATURE RANGE:
Storage -40°C to +125°C
Operating -40°C to +85°C
- Cavity comply with FCC Rules and Regulations Part 68, Subpart F

PART NUMBER	GOLD PLATING CONTACT AREA
MJT-188-M50S2-96KACS	6µ"
MJT-188-M50S2-97KACS	15µ"
MJT-188-M50S2-98KACS	30µ"
MJT-188-M50S2-9HKACS	50µ"

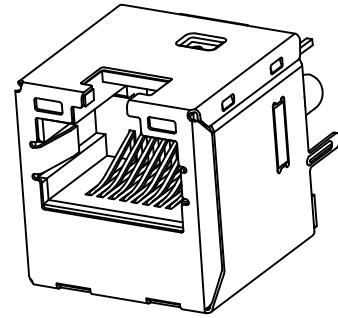
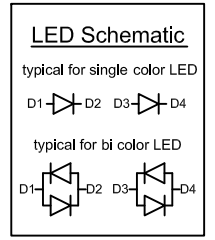
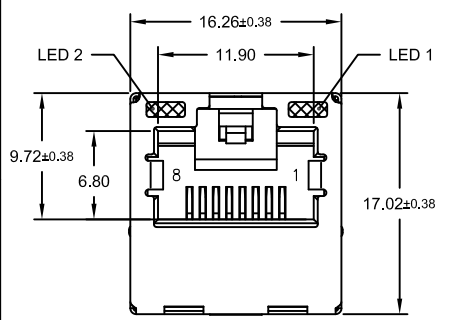
Recommended PCB Hole Layout Top View



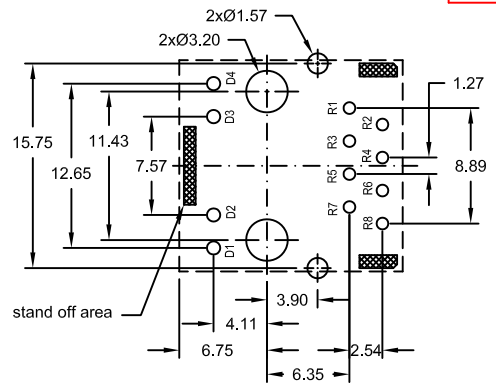
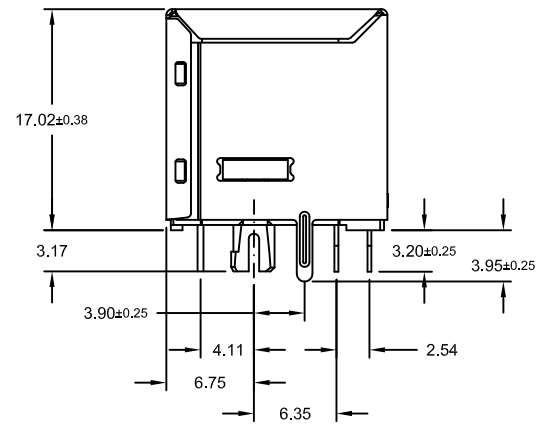
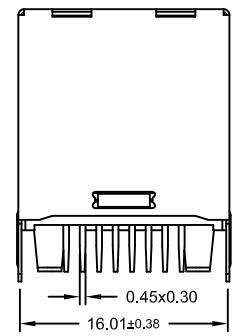
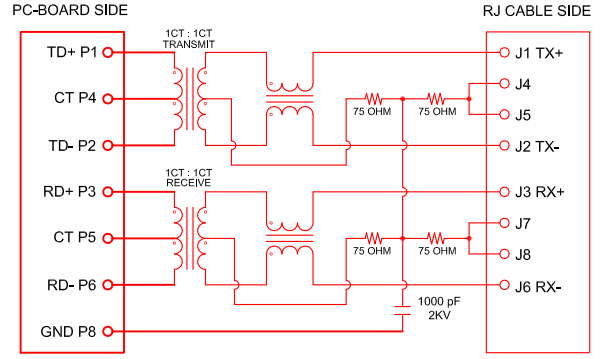
UNIT	GENERAL TOLERANCE	DRAWN	DATE	DWG. NO.	SHEET 1/1
mm	X.° ±	Peter	17.11.2010	1442503	
SCALE	X. ±	CHECK	DATE	Series NO.	REV. D
Free	.X0 ±	Ronny	21.01.2015	MJT-188-M50S2-9xKxCS	
	XX. ±	APPROVE	DATE		
	.XXX ±	Hogi	21.01.2015		

RJ 45 PCB JACK <8P8C>
 TOP ENTRY TYPE FULLY SHIELDED
Schematic "2" Type 10/100 Mbps TX Filtered
 with LED #2 = geen/yellow #1 = green/yellow

REV.	DESCRIPTION	DATE	DRAWN
A	New	12.02.2014	Ryan



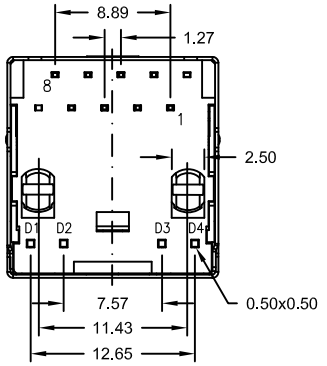
Schematic: "E" Type



- ELECTRICAL CHARACTERISTICS**
Test Notes: (25°C ±5°C)
- TR: (100KHz 0.1V):
Pins: (P1-P2):(J1-J2)=1:1±3%
Pins: (P3-P6):(J3-J6)=1:1±3%
 - LX: (100KHz 100mV 8mA DC Bias)
Pins: (P1-P2):(P3-P6)=350µH min.
 - DCR:
Pins: (J1-J2):(J3-J6)=1.2Ω max.
 - HIPOT:
Pins: (P1,P2)to(J1,J2)=1500V AC for 60 Sec.
Pins: (P3,P6)to(J3,J6)=1500V AC for 60 Sec.
 - INSERTION LOSS:
-1.0dB max. at 1MHz to 100MHz
 - RETURN LOSS (100Ω ±5Ω):
-18dB min. at 1MHz to 30MHz
-16dB min. at 30MHz to 60MHz
-12dB min. at 60MHz to 80MHz
 - CROSS TALK:
-30dB min. at 1MHz to 100MHz
 - COMMON TO COMMON MODE REJECTION:
-30dB min. at 1MHz to 100MHz

Recommended PCB Hole Layout Top View

- SPECIFICATION**
- MATERIAL:
Housing - PBT UL 94V-0 (black)
Contact - 0.35mm PhBz; Sn/Au plated
Shield - Brass; Ni plated
 - OPERATING LIFE: 750 Cycles min.
 - TEMPERATURE RANGE:
Storage -40°C to +125°C
Operating -40°C to +105°C
 - Cavity conform to FCC Rules and Registration PAR68, Subparts F



Replace "x" with LED Color Options

	LED 2	LED 1
0	NO LED	NO LED
1	YELLOW	GREEN
2	NO LED	GREEN
3	GREEN	NO LED
4	GREEN	YELLOW
5	GREEN	GREEN
6	YELLOW	YELLOW
7	ORANGE/GREEN	ORANGE/GREEN
8	YELLOW/GREEN	YELLOW/GREEN
9	RED	NO LED
A	GREEN/YELLOW	GREEN/YELLOW
B	RED/GREEN	RED/GREEN
C	RED/GREEN	GREEN/YELLOW
D	GREEN	GREEN/YELLOW
E	YELLOW	GREEN/YELLOW

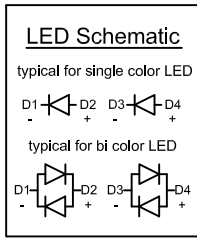
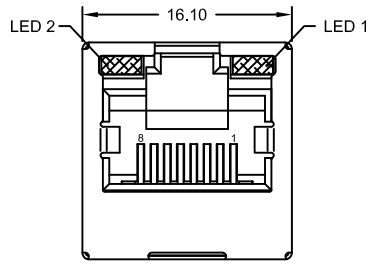
PART NUMBER	GOLD PLATING CONTACT AREA
MJT-188-M50SE-96KxCS	6µ"
MJT-188-M50SE-97KxCS	15µ"
MJT-188-M50SE-98KxCS	30µ"
MJT-188-M50SE-9HKxCS	50µ"



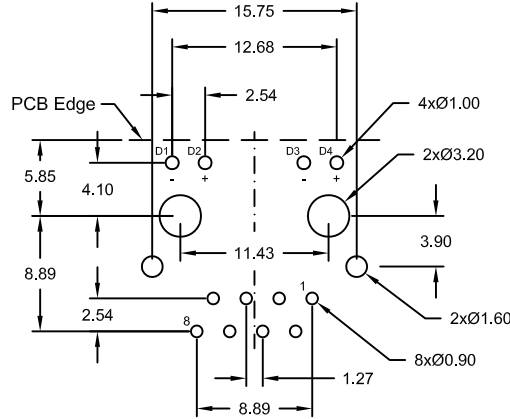
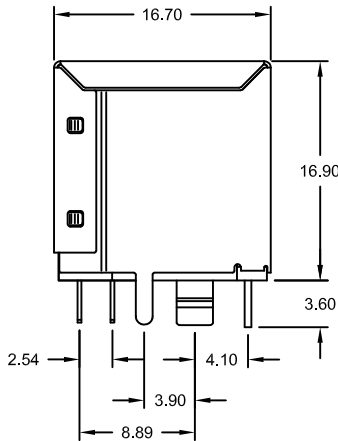
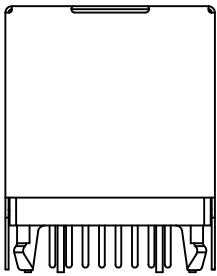
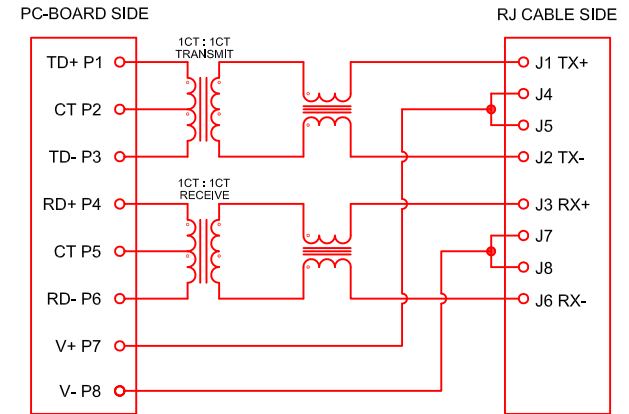
UNIT mm	GENERAL TOLERANCE		DRAWN Ryan	DATE 12.02.2014	DWG. NO. 1442504	SHEET 1/1
	X.° ± 3°	.X° ±	CHECK Ronny	DATE 12.02.2014	Series NO. MJT-188-M50SE-9xKxCS	REV. A
	X. ±	.X ± 0.25	APPROVE Hogi	DATE 12.02.2014		
	XX. ±	.XX ± 0.15				
SCALE Free		XXX. ±	.XXX ± 0.075			

RJ 45 PCB JACK <8P8C>
TOP ENTRY TYPE FULLY SHIELDED WITH LED'S
Schematic E Type 10/100 Mbps TX Filtered
for CAT 5 & 6 fast Ethernet

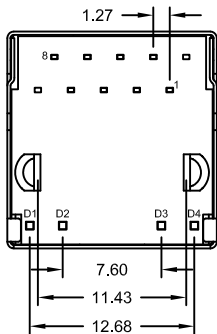
REV.	DESCRIPTION	DATE	DRAWN
A	New	23.11.2015	Ryan



Schematic: "AB" Type



Recommended PCB Hole Layout Top View



Replace "x" with LED Color Options

	LED Color Options	
	LED 2	LED 1
1	YELLOW	GREEN
2	NO LED	GREEN
3	GREEN	NO LED
4	GREEN	YELLOW
5	GREEN	GREEN
6	YELLOW	YELLOW
7	ORANGE/GREEN	ORANGE/GREEN
8	YELLOW/GREEN	YELLOW/GREEN
9	RED	NO LED
A	GREEN/YELLOW	GREEN/YELLOW
B	RED/GREEN	RED/GREEN
C	RED/GREEN	GREEN/YELLOW
D	GREEN	GREEN/YELLOW
E	YELLOW	GREEN/YELLOW



Specifications

Material
Housing: PBT UL 94V-0 (black)
Contact: Phosphor Bronze t=0.35mm
Plating: Sn on solder area;
Au flash on contact area
Shield: Brass; Ni plated

Operating temperature: 0°C to +70°C

Operating life: 750 cycles min.

Cavity comply with FCC Rules and Regulations Part 68, Subpart F

Electrical Characteristics

- Test Notes: (25°C ±5°C)
- TR: (100KHz 0.1V):
Pins: (P1-P3):(J1-J2)=1:1±3%
Pins: (P4-P6):(J3-J6)=1:1±3%
 - LX: (100KHz 100mV 8mA DC Bias)
Pins: (P1-P3):(P4-P6)=350µH min.
 - DCR:
Pins: (J1-J2):(J3-J6)=1.2Ω max.
 - HIPOT:
Pins: (P1,P3)to(J1,J2)=1500V AC for 60 Sec.
Pins: (P4,P6)to(J3,J6)=1500V AC for 60 Sec.
 - INSERTION LOSS:
-1.0dB max. at 1MHz to 100MHz
 - RETURN LOSS (100Ω ±5Ω):
-18dB min. at 1MHz to 30MHz
-16dB min. at 30MHz to 60MHz
-12dB min. at 60MHz to 80MHz
 - CROSS TALK:
-30dB min. at 1MHz to 100MHz
 - COMMON TO COMMON MODE REJECTION:
-30dB min. at 1MHz to 100MHz

PART NUMBER	GOLD PLATING CONTACT AREA
MJT-188-M0SAB-96/KxC	6µ"
MJT-188-M0SAB-97/KxC	15µ"
MJT-188-M0SAB-98/KxC	30µ"
MJT-188-M0SAB-9H/KxC	50µ"

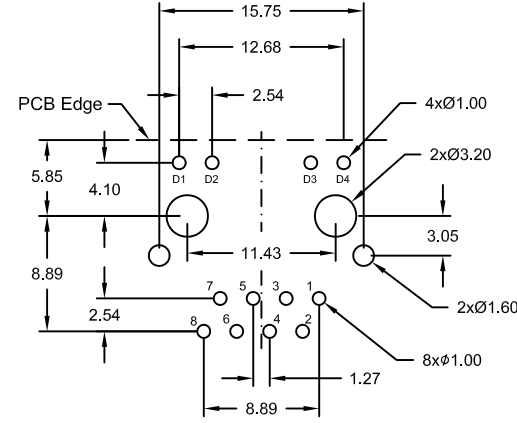
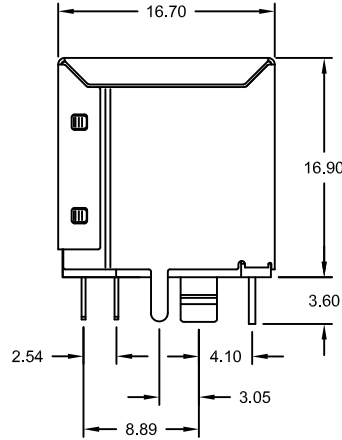
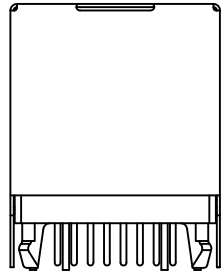
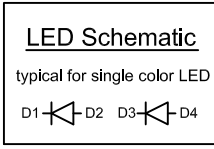
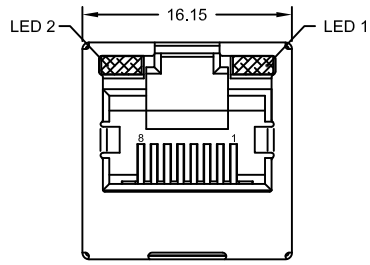
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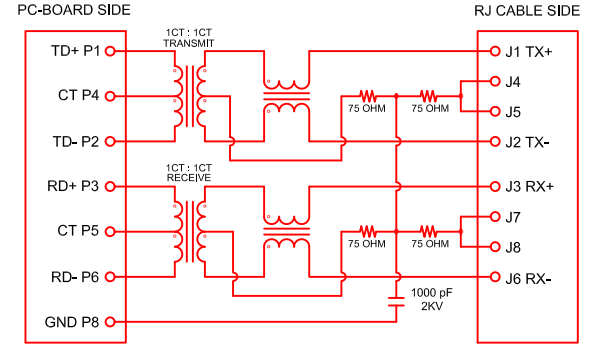
UNIT mm	GENERAL TOLERANCE		DRAWN Ryan	DATE 23.11.2015	DWG. NO. 1442505	SHEET 1/1				
	SCALE Free	X.° ±					X. ±	CHECK Ronny	DATE 23.11.2015	SERIES NO. MJT-188-M0SAB-9x/KxC
		.XX° ±					.XX ± 0.25			
		.XXX° ±					.XXX ±			
			APPROVE Hogi	DATE 23.11.2015	REV. A					

RJ 45 PCB Jack <8P8C>
top entry type fully shielded with LED's
Type "AB" 10/100 Mbps 4 core TX Filtered

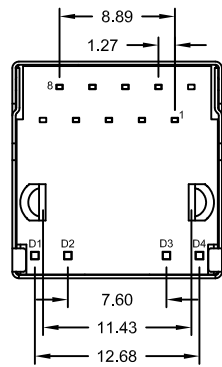
REV.	DESCRIPTION	DATE	DRAWN
A	New	02.12.2015	Cherry



Recommended PCB Layout Top View
 (Tolerance ±0.05)



Schematic: "E" Type



Replace "x" with
 LED Color Options

PART NUMBER	GOLD PLATING CONTACT AREA
MJT-188-M0SE-95/KxCs	flash
MJT-188-M0SE-96/KxCs	6µ"
MJT-188-M0SE-97/KxCs	15µ"
MJT-188-M0SE-98/KxCs	30µ"
MJT-188-M0SE-9H/KxCs	50µ"

	LED Color Options	
	LED 2	LED 1
1	YELLOW	GREEN
2	NO LED	GREEN
3	GREEN	NO LED
4	GREEN	YELLOW
5	GREEN	GREEN
6	YELLOW	YELLOW
9	RED	NO LED



Specifications

Material
 Housing: PBT UL 94V-0 (black)
 Contact: Phosphor Bronze t=0.35mm
 Plating: Sn on solder area;
 Au flash on contact area
 Shield: Brass; Ni plated

Storage temperature: -40°C to +85°C
 Operating temperature: 0°C to +70°C

Operating life: 750 cycles min.

Cavity comply with FCC Rules and Regulations Part 68, Subpart F

Electrical Characteristics

Test Notes: (25°C ±5°C)

- TR: (100KHz 0.1V):
 Pins: (P1-P2):(J1-J2)=1:1±3%
 Pins: (P3-P6):(J3-J6)=1:1±3%
- LX: (100KHz 100mV 8mA DC Bias)
 Pins: (P1-P2):(P3-P6)=350µH min.
- DCR:
 Pins: (J1-J2):(J3-J6)=1.2Ω max.
- HIPOT:
 Pins: (P1,P2)to(J1,J2)=1500V AC for 60 Sec.
 Pins: (P3,P6)to(J3,J6)=1500V AC for 60 Sec.
- INSERTION LOSS:
 -1.0dB max. at 1MHz to 100MHz
- RETURN LOSS (100Ω ±5Ω):
 -18dB min. at 1MHz to 30MHz
 -16dB min. at 30MHz to 60MHz
 -12dB min. at 60MHz to 80MHz
- CROSS TALK:
 -30dB min. at 1MHz to 100MHz
- COMMON TO COMMON MODE REJECTION:
 -30dB min. at 1MHz to 100MHz

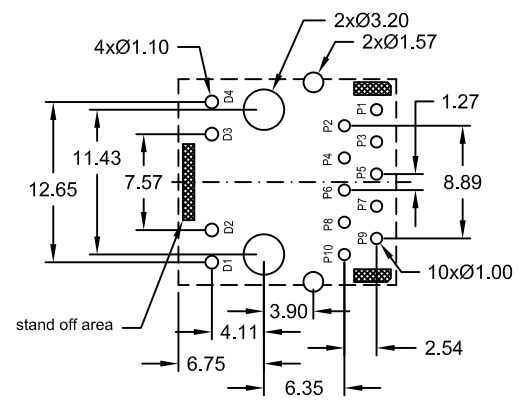
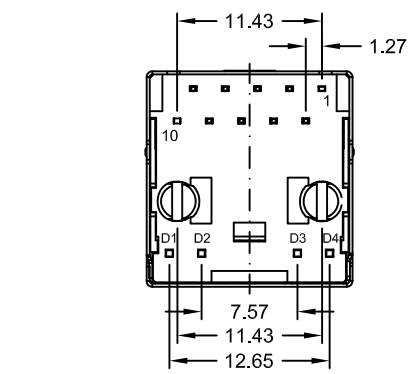
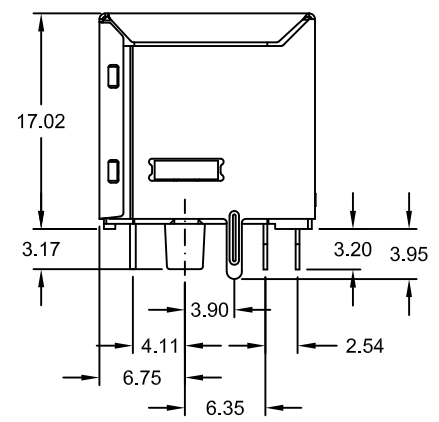
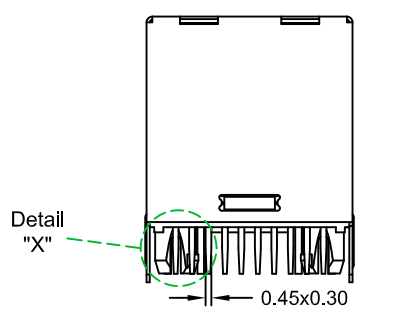
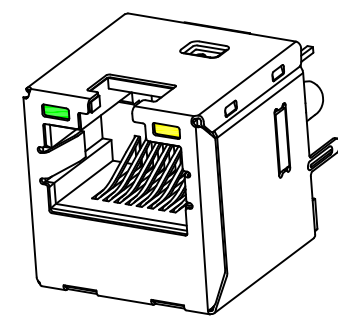
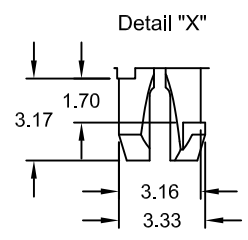
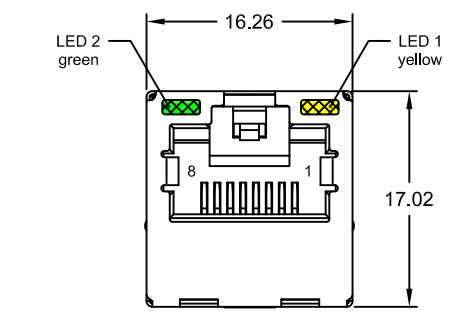
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UNIT mm	GENERAL TOLERANCE		DRAWN Cherry	DATE 02.12.2015	DWG. NO. 1442506	SHEET 1/1				
	SCALE Free	X° ±					X. ±	CHECK Ronny	DATE 02.12.2015	REV. A
		.XX° ±					.XX ± 0.25			
		.XXX° ±					.XXX ±			
			APPROVE Hogi	DATE 02.12.2015	SERIES NO. MJT-188-M0SE-9x/KxCs					

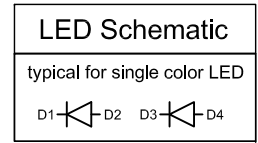
RJ 45 PCB Jack <8P8C>
 top entry type fully shielded with LED's
 Type "E" 10/100 Mbps 4 core TX Filtered

REV.	DESCRIPTION	DATE	DRAWN
A	New	30.08.2016	RH



Recommended PCB Hole Layout
Top View
Tolerance ±0.05mm

PART NUMBER	GOLD PLATING CONTACT AREA
MJT-108-MG0SAF-96K4CS	6µ"
MJT-108-MG0SAF-97K4CS	15µ"
MJT-108-MG0SAF-98K4CS	30µ"
MJT-108-MG0SAF-9HK4CS	50µ"



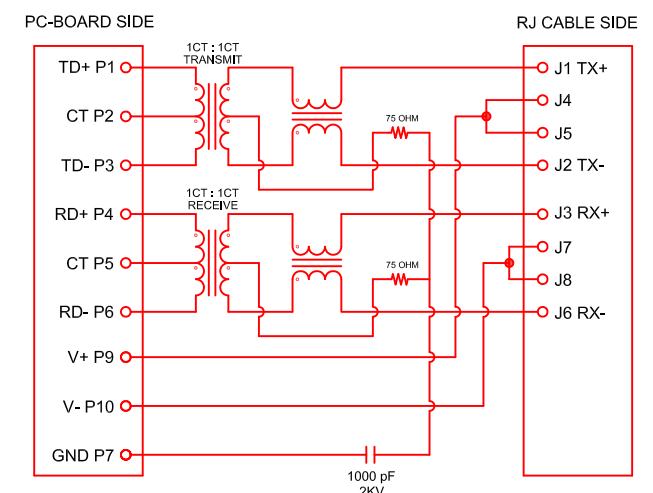
Specifications
Material
Housing: PBT UL 94V-0 (black)
Contact: Phosphor Bronze $t=0.25\text{mm}$
Plating: Sn/Au
Shield: Brass; Ni plated

Storage temperature: -40°C to $+125^{\circ}\text{C}$
Operating temperature: 0°C to $+70^{\circ}\text{C}$

Operating life: 750 cycles min.

Cavity comply with FCC Rules and Regulations Part 68, Subpart F

Schematic: "AF" Type



Electrical Characteristics

- Test Notes: ($25^{\circ}\text{C} \pm 5^{\circ}\text{C}$)
- TR: (100KHz 0.1V):
Pins: (P1-P3):(J1-J2)= $1:1 \pm 3\%$
Pins: (P4-P6):(J3-J6)= $1:1 \pm 3\%$
 - LX: (100KHz 100mV 8mA DC Bias)
Pins: (P1-P3):(P4-P6)= $350\mu\text{H}$ min.
 - DCR:
Pins: (J1-J2):(J3-J6)= 1.2Ω max.
 - HIPOT:
Pins: (P1,P3)to(J1,J2)= 1500V AC for 60 Sec.
Pins: (P4,P6)to(J3,J6)= 1500V AC for 60 Sec.
 - INSERTION LOSS:
 -1.0dB max. at 1MHz to 100MHz
 - RETURN LOSS ($100\Omega \pm 5\Omega$):
 -18dB min. @ 1MHz to 30MHz, load 100Ω
 -16dB min. @ 30MHz to 60MHz, load 100Ω
 -12dB min. @ 60MHz to 80MHz, load 100Ω
 - CROSS TALK:
 -30dB min. @ 1MHz to 100MHz
 - COMMON TO COMMON MODE REJECTION:
 -30dB min. @ 1MHz to 100MHz

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UNIT mm	SCALE Free	GENERAL TOLERANCE		DRAWN RH	DATE 30.08.2016	DWG. NO. 1442507	SHEET 1/1
		X.° ±	X. ±	CHECK Hogi	DATE 30.08.2016	SERIES NO. MJT-108-MG0SAF-9xKxCS	REV. A
		.XX° ±	.XX ± 0.25	APPROVE Hogi	DATE 30.08.2016		
		.XXX° ±	.XXX ±				

Top Entry PCB Jack
RJ45 <10P8C> fully shielded with LED
Schematic "AF" Type
10/100 Mbps 4 core TX Filter for PoE