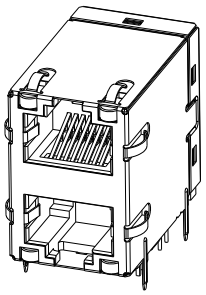
LOC	REVISIONS				
AA 00	P	LTR	DESCRIPTION	DATE	DWN	APVD
		A	ECO-11-024592	20DEC2011	TR	RZ



1. MATERIALS:
PLASTIC HOUSING: BLACK, THERMOPLASTIC FLAMMABILITY RATING UL 94V-0
SHIELD: BRASS, PREPLATED WITH 0.76um MIN SEMI-BRIGHT NICKEL,
POST DIPPED WITH 2.54um MIN SAC SOLDER ON SOLDER TAILS,
CONTACTS: PHOSPHOR BRONZE, 1.27um MIN OVERALL NICKEL
UNDERPLATE WITH SELECT 1.27um MIN GOLD AT MATING INTERFACE
AND 2.54um MIN MATTE TIN ON SOLDER TAILS.
ALL PC BOARDS: HIGH TEMPERATURE PCB,TG>170°C

2. MAGNETICS
APPLICATION: 10/100/1000 BASE-T
IMPEDANCE: 100 OHMS
TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS,
8mADC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS
ALL FOUR PAIRS BI-DIRECTIONAL
PERFORMANCE @ 25°C:
INSERTION LOSS (IL): 1.1dB MAX FROM 0.5MHz TO 100MHz
RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 40MHz
12-20LOG(f/80)dB MIN FROM 40.1MHz TO 100MHz
CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz
33-20LOG(f/50)dB MIN FROM 40.1MHz TO 100MHz
COMMON MODE REJECTION RATIO (CMRR): 30dB MIN FROM 0.5MHz TO 100MHz
ISOLATION VOLTAGE: 2250VDC (MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC AND
WITH ALL PORTS CONNECTED

3. PART NUMBER, DATE CODE AND COUNTRY OF ORIGIN ARE LOCATED
IN APPROXIMATE AREA SHOWN.DATE CODE: "YY" IS YEAR, "WW" IS
WORK WEEK, "D" IS DAY OF WEEK, WITH SUNDAY=1

4. TE CONNECTIVITY LOGO AND AGENCY APPROVAL LOGO ARE
LOCATED IN APPROXIMATE AREA SHOWN.

5. OPERATING TEMP: FROM 0°C TO +70°C.

6. RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.

7. INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL AND
SUPPORT AUTO-MDI/MDIX.

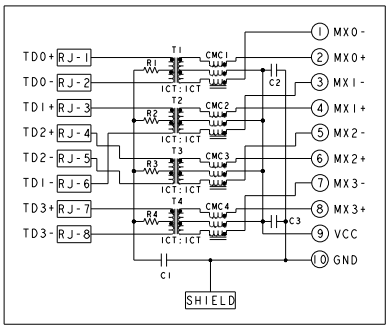
8. DATUM AND BASIC DIMENSION ESTABLISHED BY CUSTOMER.

9. BASIC DIMENSION ESTABLISHED BY CUSTOMER, BUT MAY NOT BE
GREATER THAN 5.08mm.

10. LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA
LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. @ IF=20mA
FORWARD VOLTAGE (VF): GREEN 2.2V TYP. @ IF=20mA
DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. @ IF=20mA
FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. @ IF=20mA
DOMINANT WAVELENGTH (λD): ORANGE 605 nm TYP @ IF=20 mA
FORWARD VOLTAGE (VF): ORANGE 2.1V TYP @ IF=20 mA

11. THE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS,
PEAK TEMPERATURE 260°C MAX, 10 SECONDS MAX.

S8G56 GIGABIT CIRCUIT 9 10
TOP AND BOTTOM PORTS



C1 = 1000pF, 2kV CAPACITOR
C2 - C3 = 10nF, 50V CAPACITORS
R1-R4 = 75 Ohms, 1/16 W, RESISTORS

GREEN/YELLOW	GREEN	GREEN/YELLOW	GREEN	1840855-5
GREEN/ORANGE	GREEN/ORANGE	GREEN/ORANGE	GREEN/ORANGE	1840855-7
GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	1840855-4
GREEN	YELLOW	GREEN	YELLOW	1840855-3
GREEN	GREEN	GREEN	GREEN	1840855-1
BOTTOM LED 2	BOTTOM LED 1	TOP LED 2	TOP LED 1	PART NUMBER

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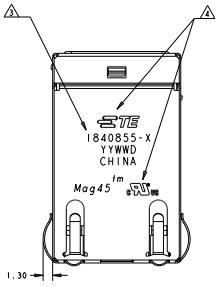
DRN	18NOV2010	TE Connectivity
CHK	JAMISON CHEN 18NOV2010	
APVD	TONY TUAN 18NOV2010	
MFG APPR	KEITH ZHU 18NOV2010	
PRODUCT SPEC	108-104004	2X1 MAG45(TM),GIGABIT S8G56 CIRCUIT GROUND SHIELD, WITH LEDS
APPLICATION SPEC		
SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	1840855	-
WEIGHT		CUSTOMER DRAWING	SCALE 4	SHEET 1 OF 4	REV A

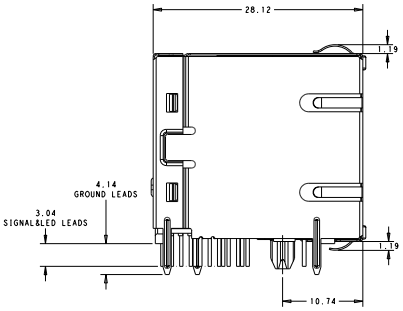
DIMENSIONS: MM
TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±0.5
2 PLC ±0.25
3 PLC ±-
ANGLES ±-
FINISH -
MATERIAL -

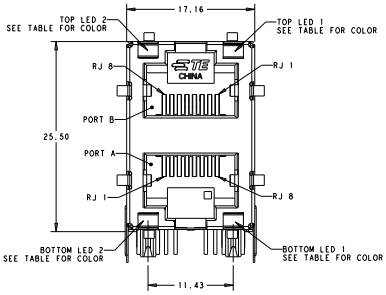
LOC	DIST
AA	00

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-







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DIMENSIONS: MM

TOLERANCES UNLESS OTHERWISE SPECIFIED:
X PLC ±
.X PLC ±
.XX PLC ±0.25
.XXX PLC ±
ANGLES ±

MATERIAL -

FINISH -

WEIGHT -

DWN	18NOV2010
CHK	JAMISON CHEN 18NOV2010
APVD	TONY YUAN 18NOV2010
MFG	KEITH ZHU
PRODUCT SPEC	108-104004
APPLICATION SPEC	

TE Connectivity

NAME: 2X1 MAG45(TM),GIGABIT S8G56 CIRCUIT GROUND SHIELD, WITH LEDS

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-1840855	-

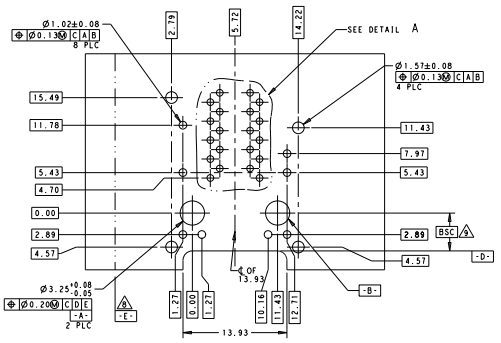
CUSTOMER DRAWING | SCALE 4 | SHEET 2 OF 4 | REV A

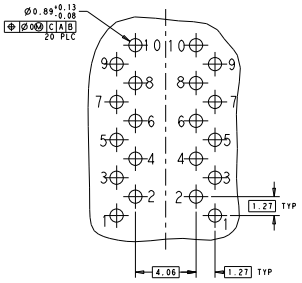
4005 13/111

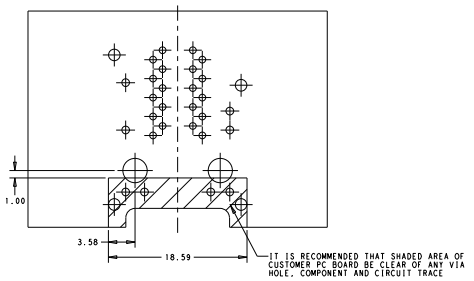
LOC	DIST
AA	00

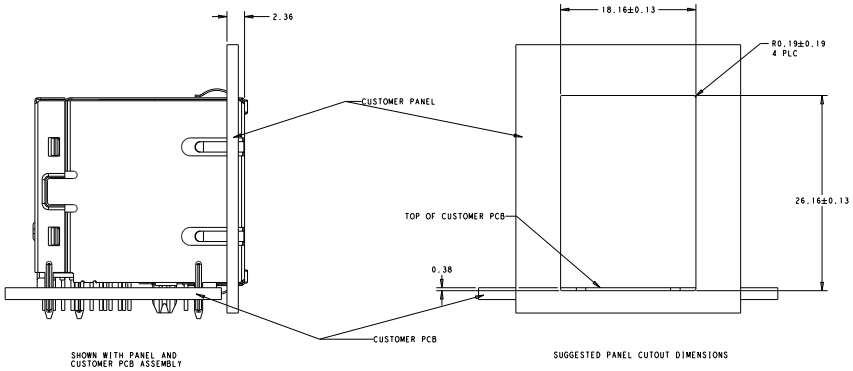
REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-









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1 PLC ±0.5
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ANGLES ±-
FINISH -

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APPLICATION SPEC	108-104004	
WEIGHT	-	

TE Connectivity

2X1 MAG45(TM),GIGABIT S8G56 CIRCUIT GROUND SHIELD, WITH LEDS

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-1840855	-

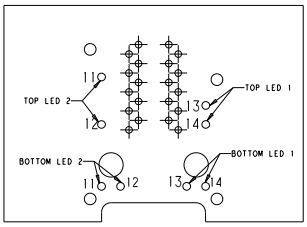
CUSTOMER DRAWING — SCALE 4 — SHEET 3 OF 4 — REV A

4005 13JUL11

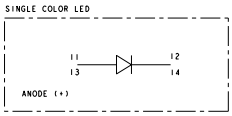
LOC	DIST
AA	00

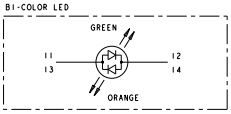
REVISIONS

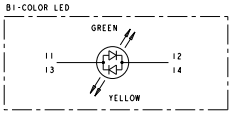
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

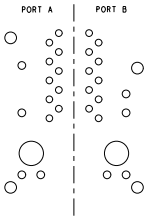


LED HOLE DESIGNATIONS
VIEWED FROM COMPONENT SIDE









PORT ASSIGNMENT
COMPONENT SIDE VIEW

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X PLC ±-
.X PLC ±-
.XX PLC ±0.25
.XXX PLC ±-
ANGLES ±-
FINISH -

MATERIAL -

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TE Connectivity

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CUSTOMER DRAWING

SCALE	SHEET	OF	REV
4	4	4	A

4005 13JUL11