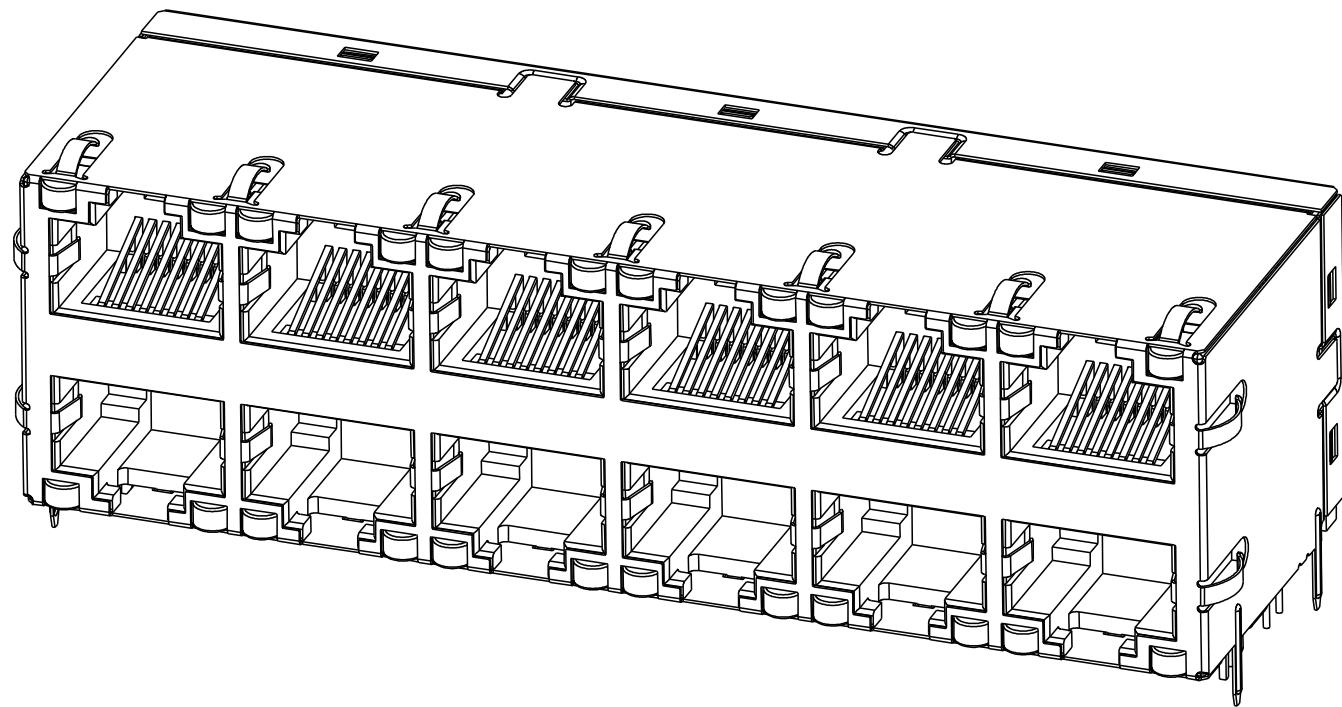
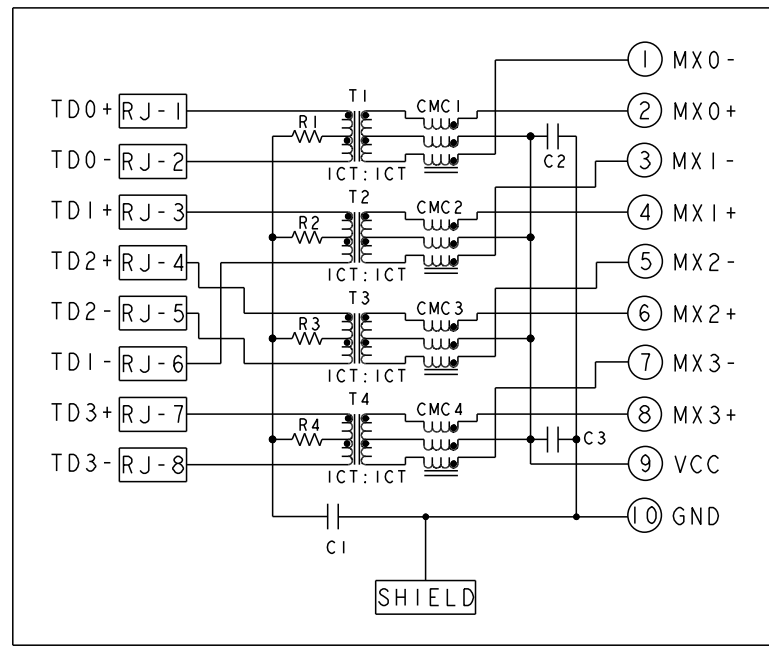


REVISONS		DATE	BY	APPV
F	ECO-11-004182	21FEB2011	TR	KZ
G	ECO-12-008758	03MAY2012	GZ	KZ
H	ECO-12-010460	08JUN2012	TR	KZ
J	ECO-12-021753	14DEC2012	TR	KZ

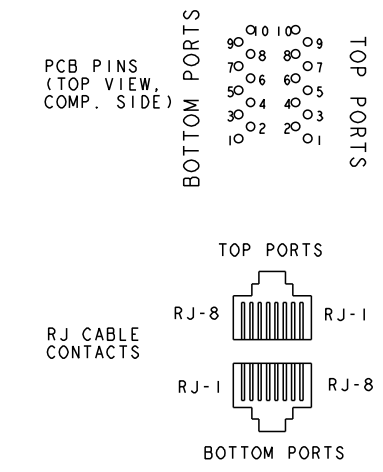


S8G56 GIGABIT CIRCUIT
 TOP AND BOTTOM PORTS



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

PIN DESIGNATIONS
 (REPEAT FOR EACH VERTICAL PAIR OF PORTS.)



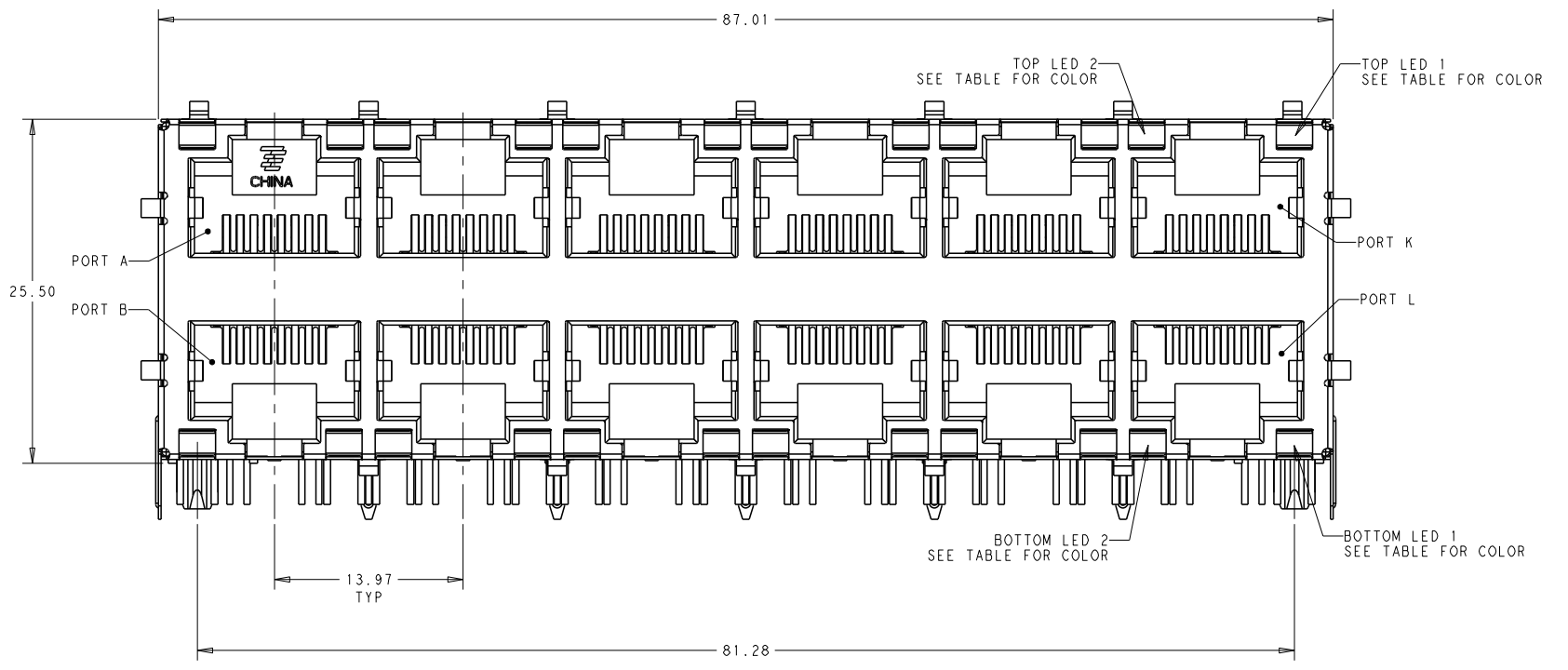
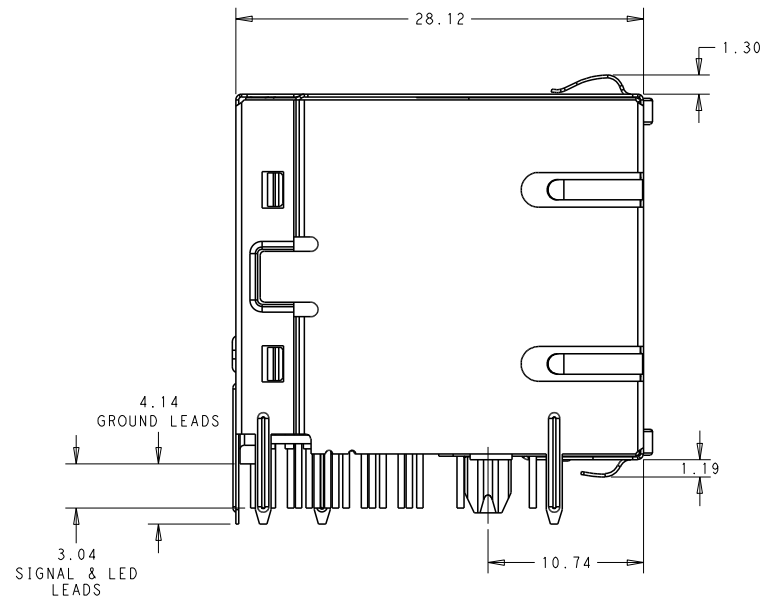
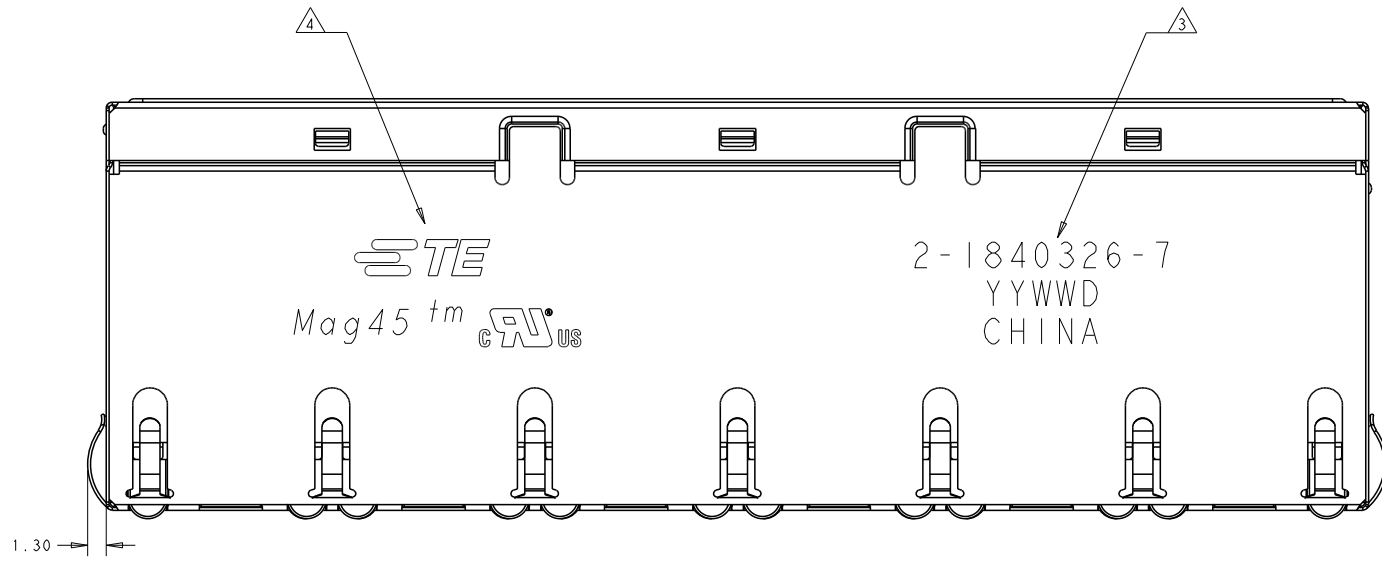
- MATERIALS:
 PLASTIC HOUSING: BLACK, THERMOPLASTIC FLAMMABILITY RATING UL 94V-0
 SHIELD: BRASS, PREPLATED WITH 0.76um MIN SEMI-BRIGHT NICKEL,
 POST DIPPED WITH 2.54um MIN SAC SOLDER ON SOLDER TAILS,
 CONTACTS: PHOSPHOR BRONZE, 1.27um MIN OVERALL NICKEL UNDERPLATE,
 WITH SELECT 0.05um MIN GOLD OVER 0.76um MIN PALLADIUM-NICKEL AT
 MATING INTERFACE AND 2.54um MIN MATTE TIN ON SOLDER TAILS.
 LED: DIFFUSED EPOXY LENS, CARBON STEEL LEAD FRAME TAILS OF LED
 ARE PREPLATED WITH 2.03um MIN SILVER OVER 1.02um MIN NICKEL
 UNDERPLATE OVER 1.02um MIN COPPER UNDERPLATE. POST-PLATED WITH
 2.54um MIN MATTE TIN AND/OR SAC SOLDER DIP OR PURE TIN SOLDER DIP
 ALL PC BOARDS: HIGH TEMPERATURE PCB, TG>170°C
- 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.
- PART NUMBER, DATE CODE AND COUNTRY OF ORIGIN ARE
 LOCATED IN APPROXIMATE AREA SHOWN. DATE CODE: YYWW WHERE "YY" IS YEAR,
 "WW" IS WEEK, "D" IS DAY OF WEEK, WITH SUNDAY=1.
- TE CONNECTIVITY LOGO AND AGENCY APPROVAL LOGO ARE
 LOCATED IN APPROXIMATE AREA SHOWN.
- OPERATING TEMP: FROM 0°C TO +70°C.
- RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.
- INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL AND
 SUPPORT AUTO-MDI/MDIX.
- DATUM AND BASIC DIMENSION ESTABLISHED BY CUSTOMER.
- BASIC DIMENSION ESTABLISHED BY CUSTOMER, BUT MAY NOT BE
 GREATER THAN 5.08mm.
- 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): ORANGE 605 nm TYP. @ IF=20mA
 FORWARD VOLTAGE (VF): ORANGE 2.1V TYP. @ IF=20mA
 DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. @ IF=20mA
 FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. @ IF=20mA
- THE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS,
 PEAK TEMPERATURE 260°C MAX, 10 SECONDS MAX.

SEE SHEET	DIM	GRN/YEL	GRN/YEL	GRN/YEL	GRN/YEL	GRN/YEL	PART NUMBER
SEE SHEET 3	2.40	GRN/YEL	GRN/YEL	GRN/YEL	GRN/YEL	GRN/YEL	3-1840326-4
SEE SHEET 3	3.04	GRN/YEL	GRN/YEL	GRN/YEL	GRN/YEL	GRN/YEL	1840326-4
SEE SHEET 2	3.04	GRN/ORA	GRN/ORA	GRN/ORA	GRN/ORA	GRN/ORA	2-1840326-7
SEE SHEET 3	3.56	GRN/ORA	GRN/ORA	GRN/ORA	GRN/ORA	GRN/ORA	1-1840326-7
SEE SHEET 3	3.56	GRN/YEL	GRN/YEL	GRN/YEL	GRN/YEL	GRN/YEL	1-1840326-4
SEE SHEET 3	3.04	GREEN	GREEN	GREEN	GREEN	GREEN	1840326-1

THIS DRAWING IS A CONTROLLED DOCUMENT.		DATE: 30JAN2010	TE Connectivity	
DRAWN: TOMMY REN		CHEK: TONY YUAN	NAME: 2X6 MAG45(TM), GIGABIT S8G56 CIRCUIT	
DIMENSIONS: mm		DATE: 30JAN2010	WAVE PANEL, GROUND SHIELD, W/ LEDS	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		DATE: 30JAN2010	SIZE: A1	
0 PLC ±	1 PLC ±	2 PLC ±0.25	3 PLC ±	4 PLC ±
ANGLES ±		WEIGHT: -		
FINISH: -		SCALE: 1:1		
MATERIAL: -		SHEET 1 OF 5		
Customer Drawing		REV J		

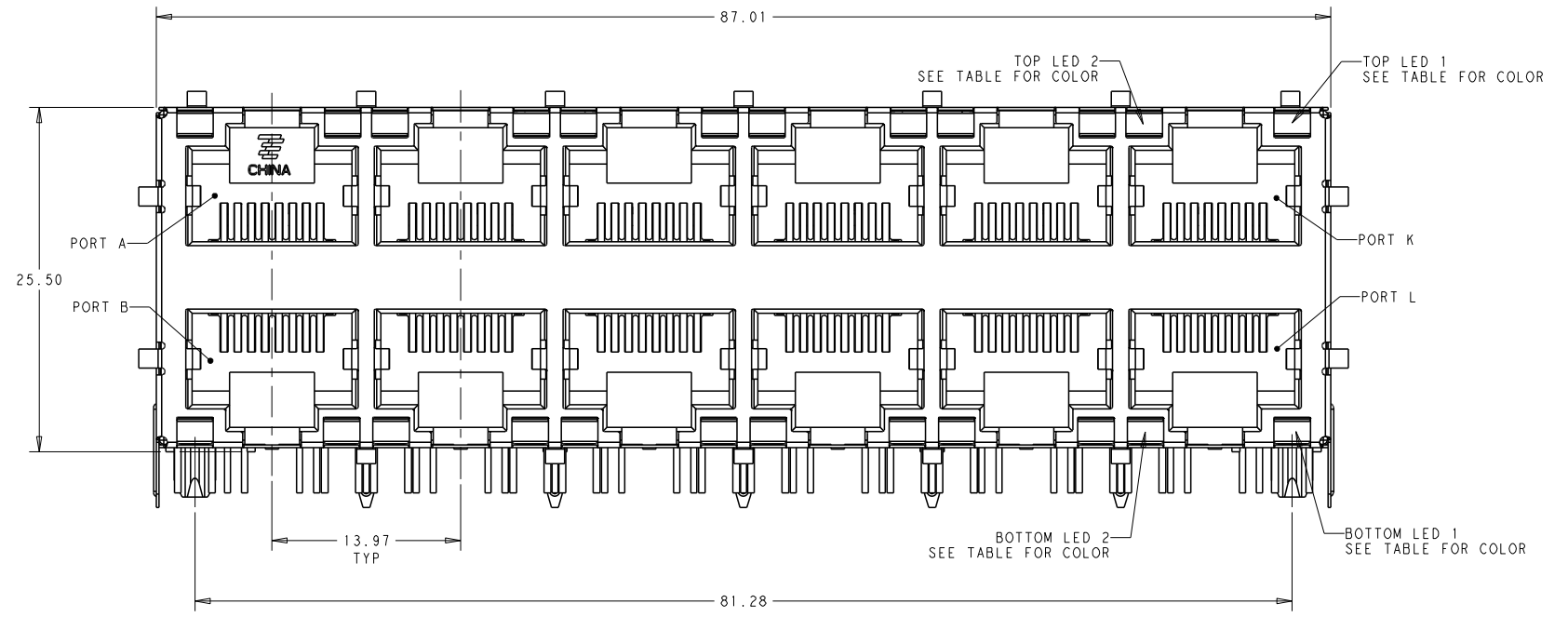
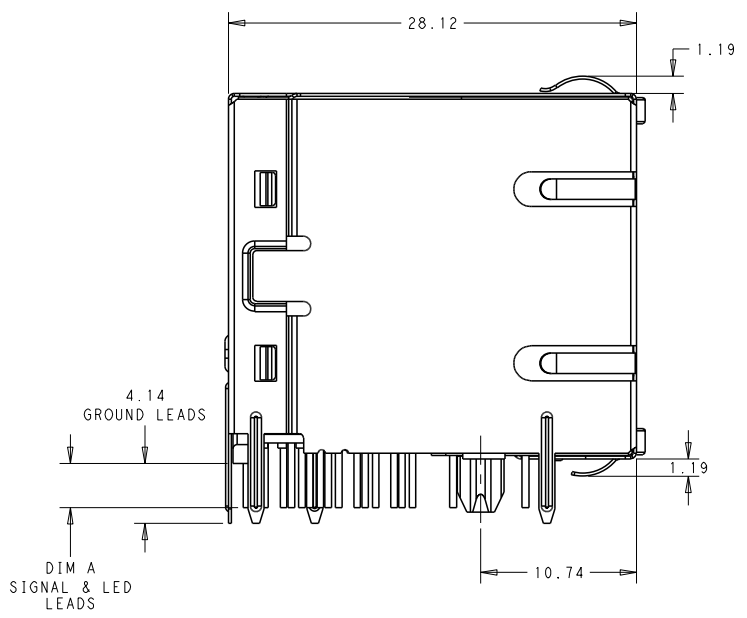
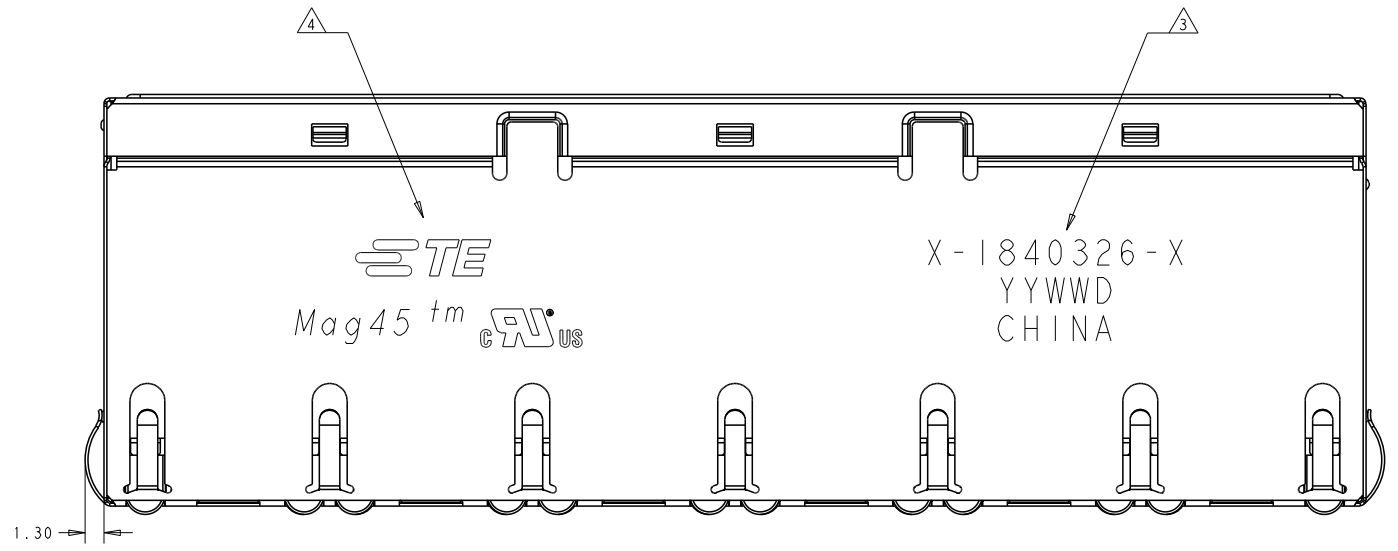
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P	LYR	DESCRIPTION	DATE	OWN	APPD
-	-	SEE SHEET 1	-	-	-

THIS SHEET FOR 2-1840326-7 ONLY



THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN: 30JAN2010	TE Connectivity
DIMENSIONS: mm		CHK: 30JAN2010	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPR: 30JAN2010	NAME: 2X6 MAG45(TM), GIGABIT S8G56 CIRCUIT WAVE PANEL, GROUND SHIELD, W/ LEDS PRODUCT SPEC: - APPLICATION SPEC: -
0 PLC ± 1 PLC ± 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES ± FINISH ±		NAME: KEITH ZHU WEIGHT: - SCALE: 4:1	
MATERIAL: -		SIZE: A1 CAGE CODE: 00779 DRAWING NO: 1840326	RESTRICTED TO: - SCALE: 4:1 SHEET 2 OF 5 REV J

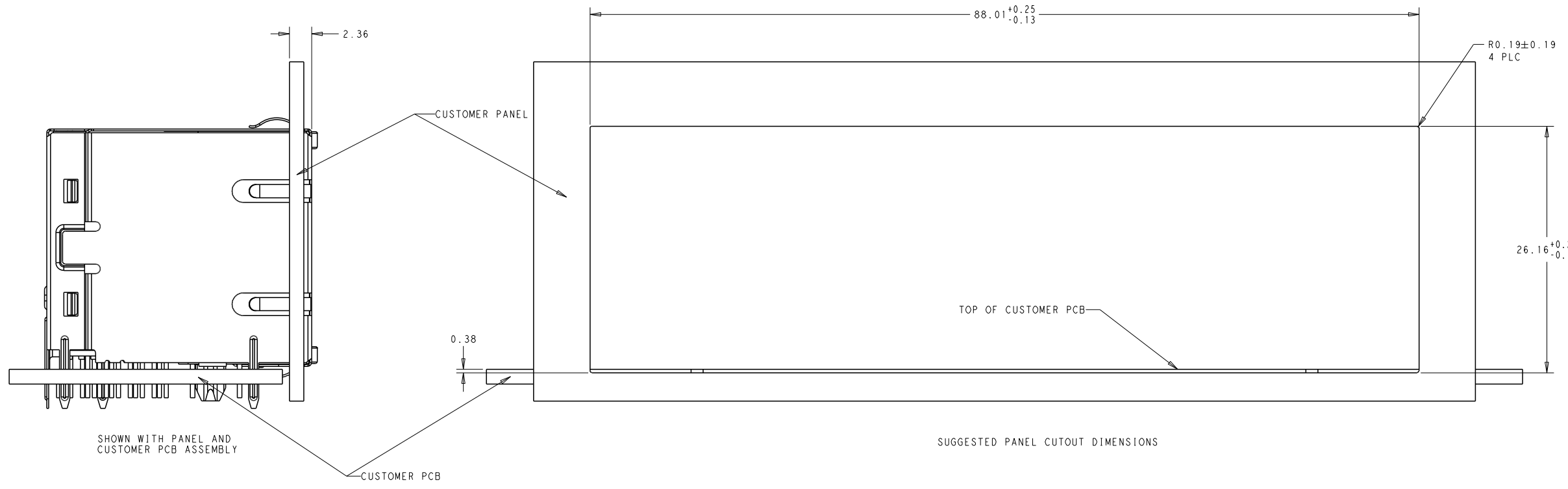
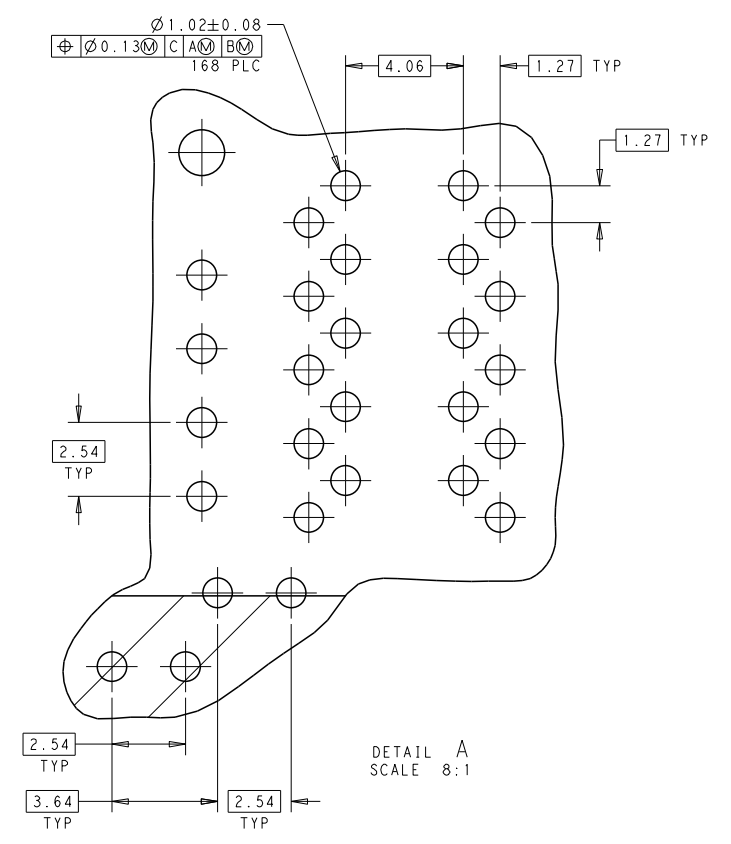
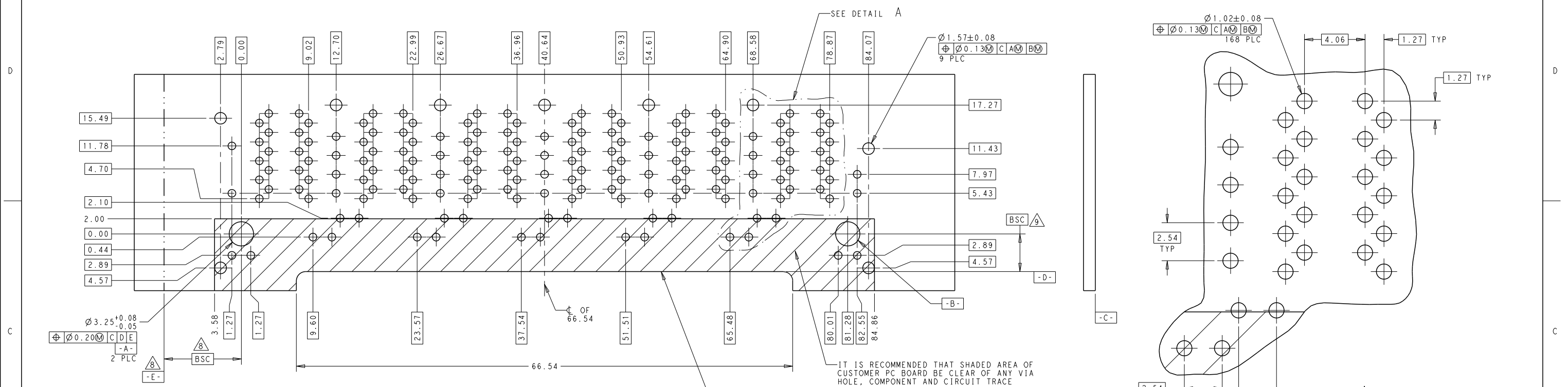
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P	LYR	DESCRIPTION	DATE	DWN	APPD
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DIMENSIONS: mm		APPR: 30JAN2010	NAME: 2X6 MAG45(TM), GIGABIT S8G56 CIRCUIT WAVE PANEL, GROUND SHIELD, W/ LEADS	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC	SIZE: CAGE CODE DRAWING NO	
0 PLC	±	APPLICATION SPEC	A1 00779 ©=1840326	
1 PLC	±	WEIGHT	RESTRICTED TO	
2 PLC	±0.25	Customer Drawing	SCALE: 1:1 SHEET 3 OF 5 REV J	
3 PLC	±			
4 PLC	±			
ANGLES	±			
FINISH				

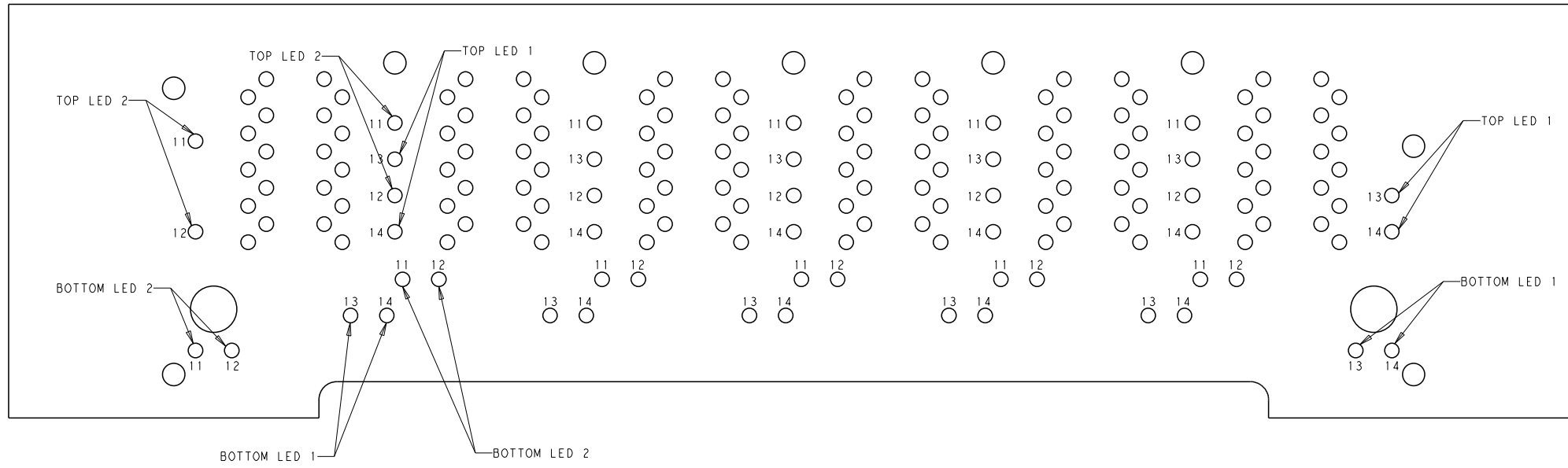
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REVISONS				
P	LYR	DESCRIPTION	DATE	APPV
-	-	SEE SHEET 1	-	-

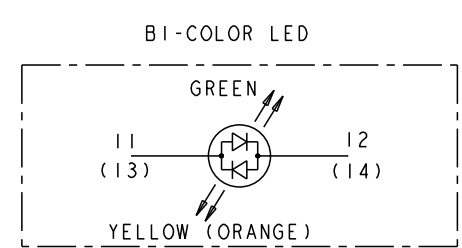
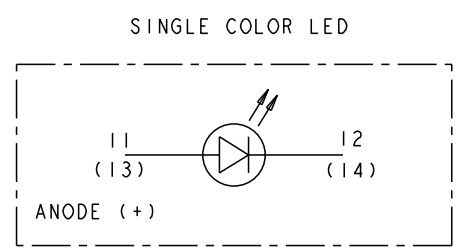


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DIMENSIONS: mm		CHK: TONY YUAN 30JAN2010	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPRO: KEITH ZHU 30JAN2010	NAME: 2X6 MAG45(TM), GIGABIT S8G56 CIRCUIT WAVE PANEL, GROUND SHIELD, W/ LEDS
0 PLC ± 1 PLC ± 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES ±	FINISH	PRODUCT SPEC	RESTRICTED TO
MATERIAL		APPLICATION SPEC	SIZE CAGE CODE DRAWING NO
		WEIGHT	A 00779 ©=1840326
Customer Drawing		SCALE 1:1	SHEET 4 OF 5 REV J

LOC		DIST		REVISIONS				
P	LYR	DESCRIPTION	DATE	DWN	APPD			
-	-	SEE SHEET 1	-	-	-			



LED HOLE DESIGNATIONS
 VIEWED FROM COMPONENT SIDE



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN: TOMMY REN 30JAN2010	TE Connectivity	
		CHK: TONY YUAN 30JAN2010		
DIMENSIONS:		APPR: KEITH ZHU 30JAN2010	NAME	
mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	PRODUCT SPEC	2X6 MAG45(TM), GIGABIT S8G56 CIRCUIT	
0 PLC ±	1 PLC ±	APPLICATION SPEC	WAVE PANEL, GROUND SHIELD, W/ LEDS	
2 PLC ±0.25	3 PLC ±	SIZE	CAGE CODE	DRAWING NO
4 PLC ±	ANGLES ±	WEIGHT	A1	00779C=1840326
MATERIAL	FINISH	Customer Drawing	SCALE	1:1
			SHEET	5 OF 5
			REV	J