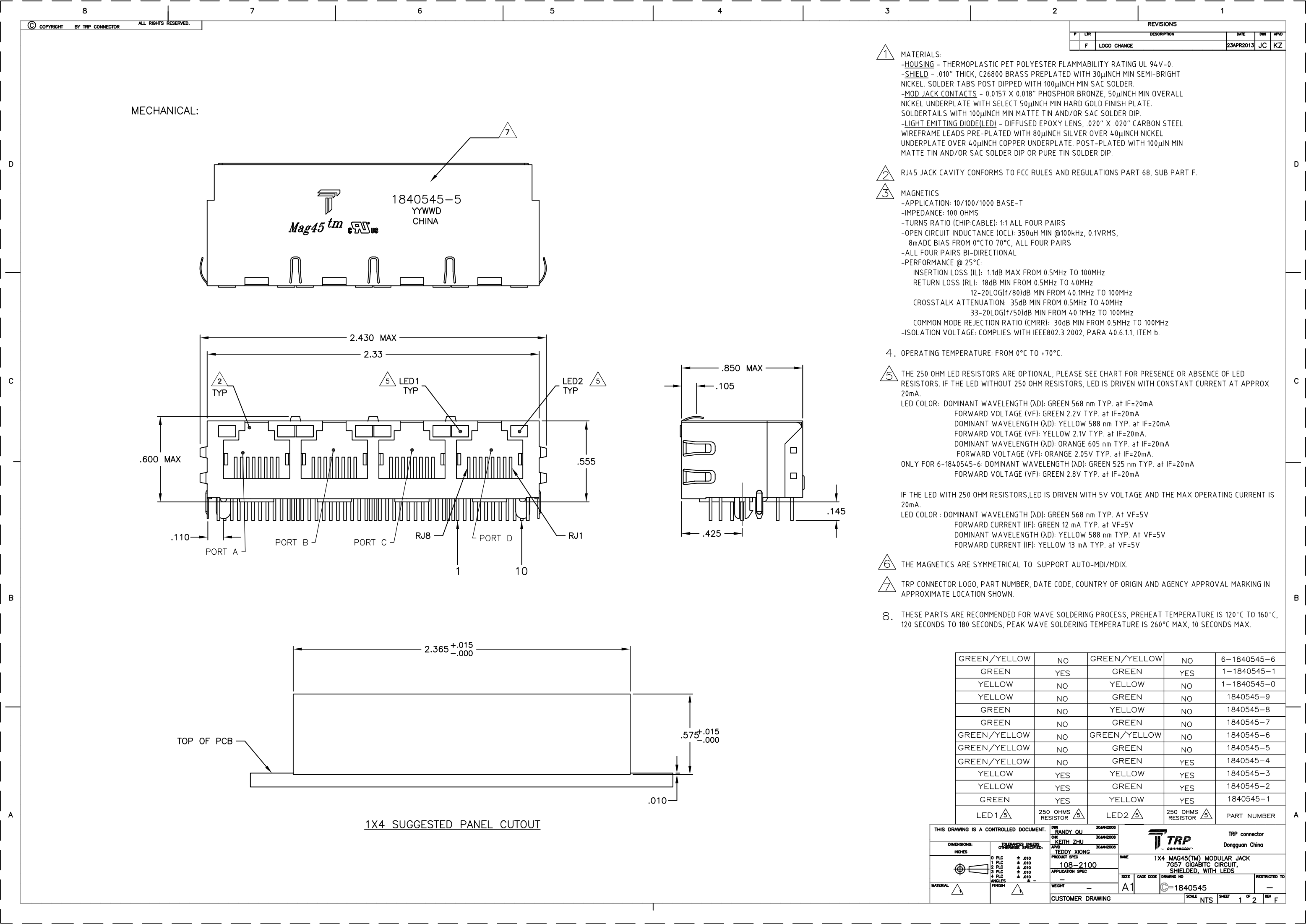




REVISIONS					
#	LTN	DESCRIPTION	DATE	BY	APP
1	F	LOGO CHANGE	23APR2013	JC	KZ

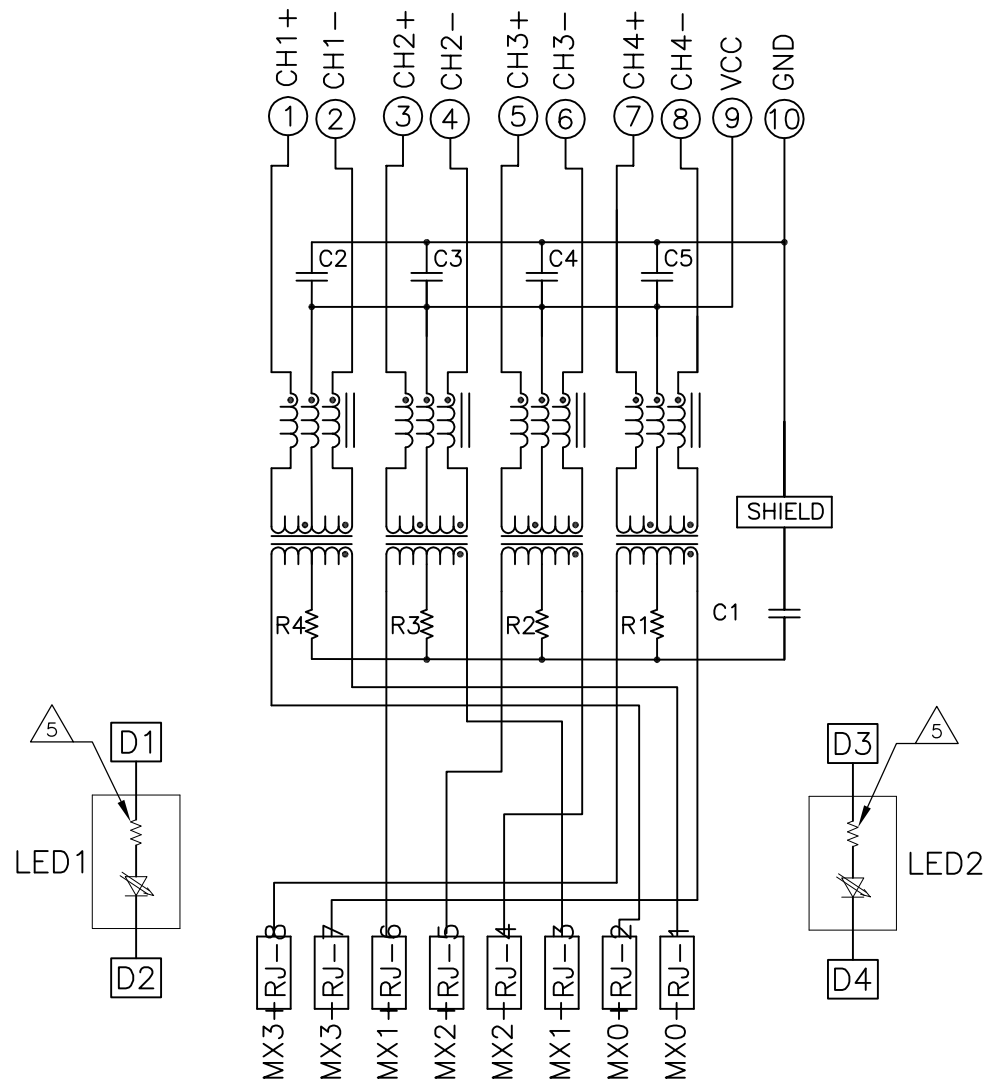
- 1 MATERIALS:
-HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.
-SHIELD - .010" THICK, C26800 BRASS PREPLATED WITH 30μINCH MIN SEMI-BRIGHT NICKEL. SOLDER TABS POST DIPPED WITH 100μINCH MIN SAC SOLDER.
-MOD JACK CONTACTS - 0.0157 X 0.018" PHOSPHOR BRONZE, 50μINCH MIN OVERALL NICKEL UNDERPLATE WITH SELECT 50μINCH MIN HARD GOLD FINISH PLATE.
SOLDERTAILS WITH 100μINCH MIN MATTE TIN AND/OR SAC SOLDER DIP.
-LIGHT EMITTING DIODE(LED) - DIFFUSED EPOXY LENS, .020" X .020" CARBON STEEL WIREFRAME LEADS PRE-PLATED WITH 80μINCH SILVER OVER 40μINCH NICKEL UNDERPLATE OVER 40μINCH COPPER UNDERPLATE. POST-PLATED WITH 100μIN MIN MATTE TIN AND/OR SAC SOLDER DIP OR PURE TIN SOLDER DIP.
- 2 RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB PART F.
- 3 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: COMPLIES WITH IEEE802.3 2002, PARA 40.6.1.1, ITEM b.
4. OPERATING TEMPERATURE: FROM 0°C TO +70°C.
- 5 THE 250 OHM LED RESISTORS ARE OPTIONAL, PLEASE SEE CHART FOR PRESENCE OR ABSENCE OF LED RESISTORS. IF THE LED WITHOUT 250 OHM RESISTORS, LED IS DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.
LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. at IF=20mA
FORWARD VOLTAGE (VF): GREEN 2.2V TYP. at IF=20mA
DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. at IF=20mA
FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. at IF=20mA.
DOMINANT WAVELENGTH (λD): ORANGE 605 nm TYP. at IF=20mA
FORWARD VOLTAGE (VF): ORANGE 2.05V TYP. at IF=20mA.
ONLY FOR 6-1840545-6: DOMINANT WAVELENGTH (λD): GREEN 525 nm TYP. at IF=20mA
FORWARD VOLTAGE (VF): GREEN 2.8V TYP. at IF=20mA
- IF THE LED WITH 250 OHM RESISTORS,LED IS DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA.
LED COLOR : DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. At VF=5V
FORWARD CURRENT (IF): GREEN 12 mA TYP. at VF=5V
DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. At VF=5V
FORWARD CURRENT (IF): YELLOW 13 mA TYP. at VF=5V
- 6 THE MAGNETICS ARE SYMMETRICAL TO SUPPORT AUTO-MDI/MDIX.
- 7 TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.
8. THESE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS, PREHEAT TEMPERATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS, PEAK WAVE SOLDERING TEMPERATURE IS 260°C MAX, 10 SECONDS MAX.

GREEN/YELLOW	NO	GREEN/YELLOW	NO	6-1840545-6
GREEN	YES	GREEN	YES	1-1840545-1
YELLOW	NO	YELLOW	NO	1-1840545-0
YELLOW	NO	GREEN	NO	1840545-9
GREEN	NO	YELLOW	NO	1840545-8
GREEN	NO	GREEN	NO	1840545-7
GREEN/YELLOW	NO	GREEN/YELLOW	NO	1840545-6
GREEN/YELLOW	NO	GREEN	NO	1840545-5
GREEN/YELLOW	NO	GREEN	YES	1840545-4
YELLOW	YES	YELLOW	YES	1840545-3
YELLOW	YES	GREEN	YES	1840545-2
GREEN	YES	YELLOW	YES	1840545-1
LED1	250 OHMS RESISTOR	LED2	250 OHMS RESISTOR	PART NUMBER

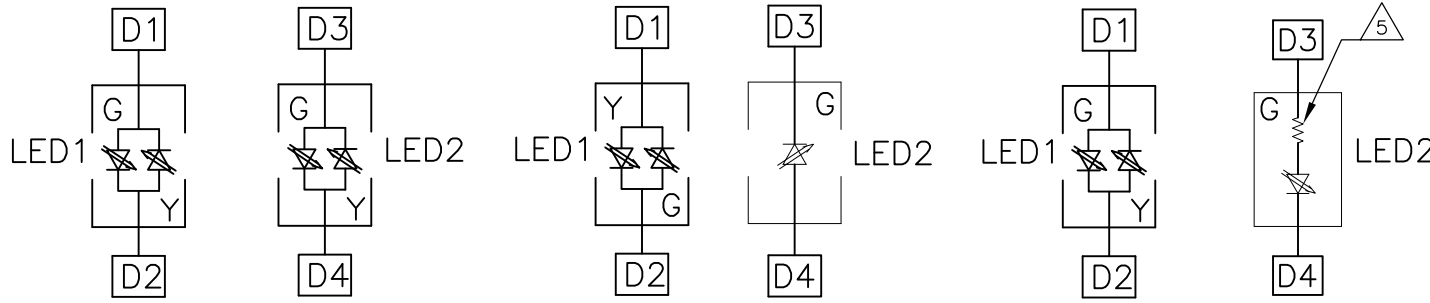
THIS DRAWING IS A CONTROLLED DOCUMENT.		DRN RANDY QU 30JUN2008	TRP connector	
DIMENSIONS: INCHES		CHK KEITH ZHU 30JUN2008	Dongguan China	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPD TEDDY XIONG 30JUN2008	NAME 1X4 MAG45(TM) MODULAR JACK	
0 PLC ± .010		PRODUCT SPEC 108-2100	7G57 GIGABITC CIRCUIT, SHIELDED, WITH LEDS	
1 PLC ± .010		APPLICATION SPEC	SIZE CASE CODE DRAWING NO	
2 PLC ± .010		—	C=1840545	
3 PLC ± .010		WEIGHT —	RESTRICTED TO	
4 PLC ± .010		—	SCALE NTS	
ANGLES FINISH		CUSTOMER DRAWING	SHEET 1 OF 2	
MATERIAL			REV F	

REVISIONS				
#	REV	DESCRIPTION	DATE	APP'D
1	-	-	-	-

7G57 GIGABIT CIRCUIT



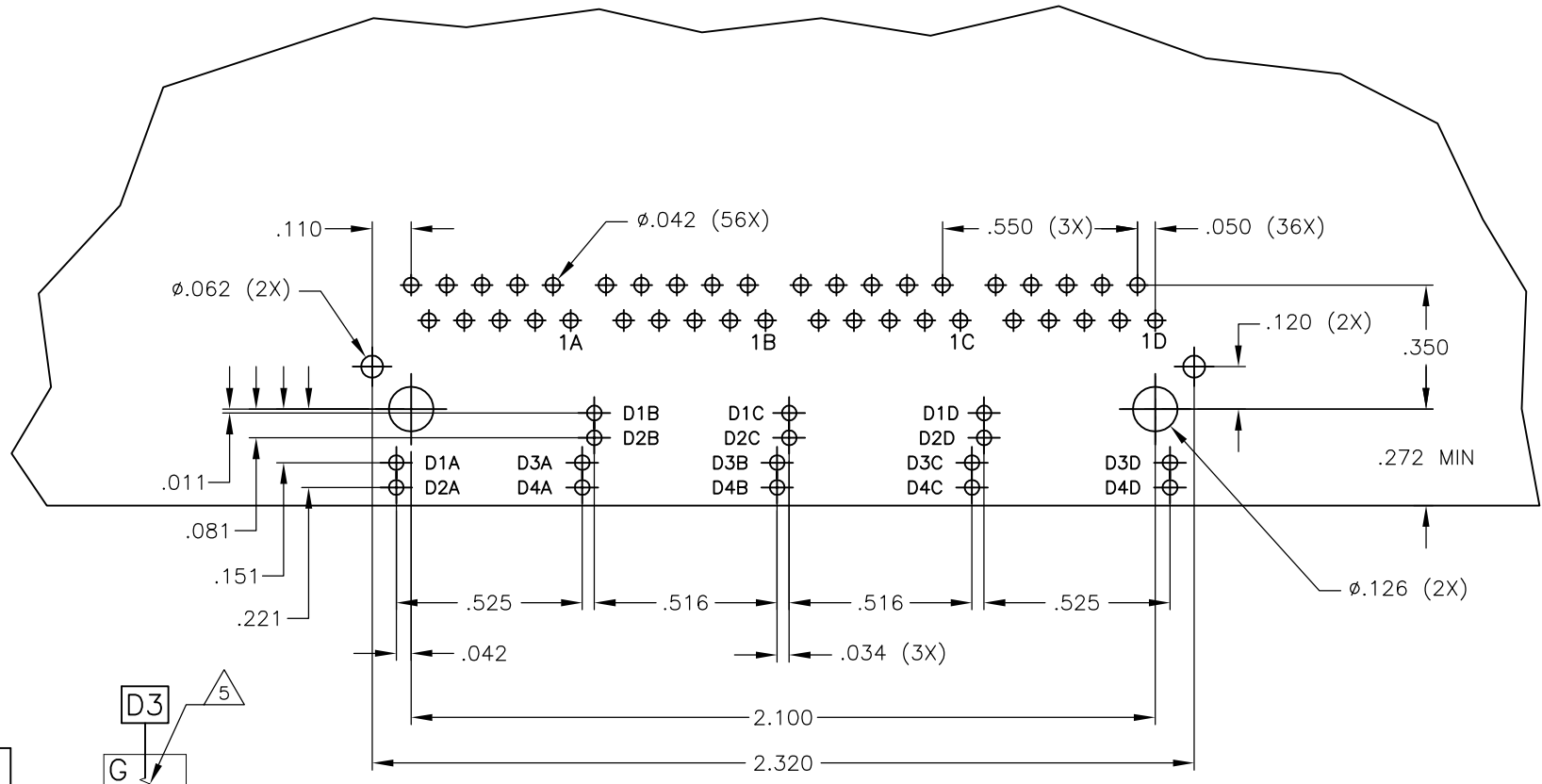
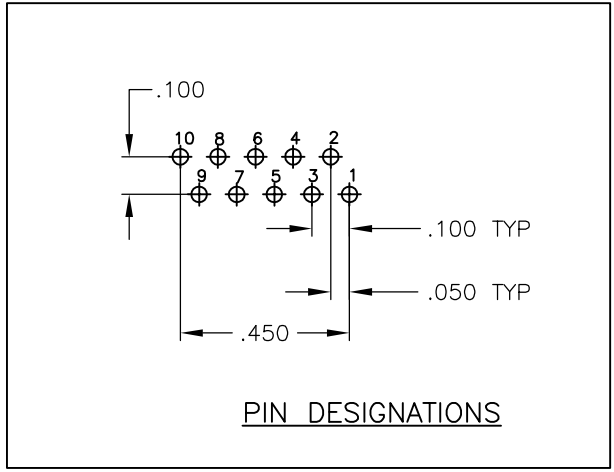
R1-R4=75 OHMS, 1/16W RESISTORS
C1=1000 pF, 2kV DECOUPLING CAPACITOR
C2-C5=0.1uF, 50V, X7R CAPACITORS



LED CONFIGURATION
ONLY FOR
1840545-6
AND 6-1840545-6

LED CONFIGURATION
ONLY FOR
1840545-5

LED CONFIGURATION
ONLY FOR
1840545-4



SUGGESTED PCB LAYOUT
(Component Side)

THIS DRAWING IS A CONTROLLED DOCUMENT.		DRW RANDY QU 30JAN2008			TRP connector	
		CHK KEITH ZHU 30JAN2008			Dongguan China	
		APP'D TEDDY XIONG				
		PRODUCT SPEC 108-2100				
		APPLICATION SPEC				
		WEIGHT				
		MATERIAL				
		FINISH				
		CUSTOMER DRAWING				
		SCALE 4:1				
		SHEET 2 OF 2				
		REV F				