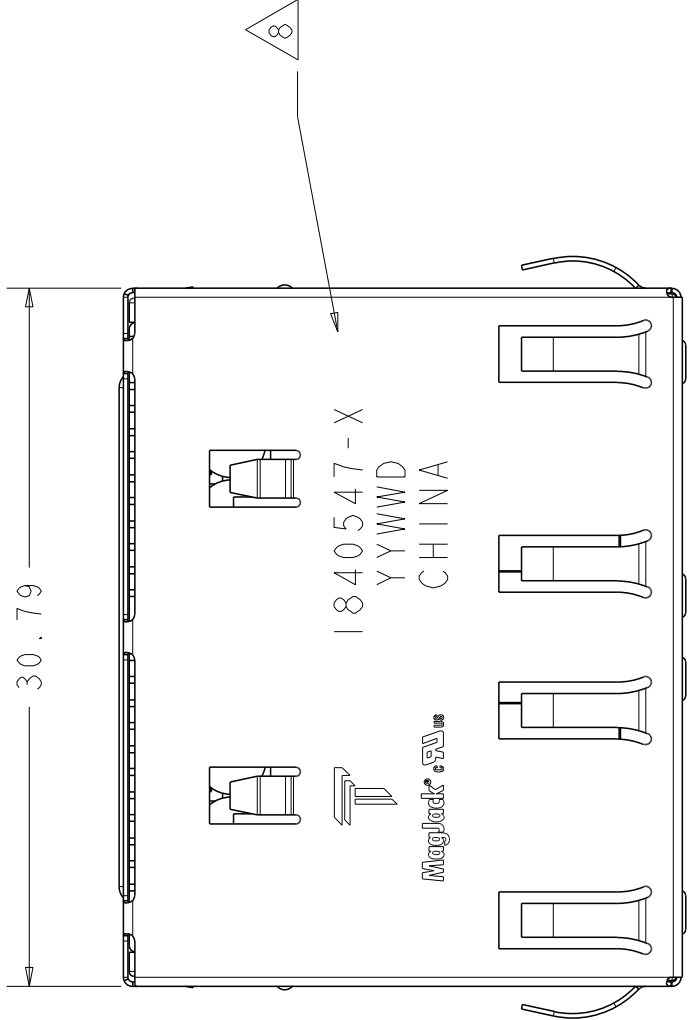


THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.

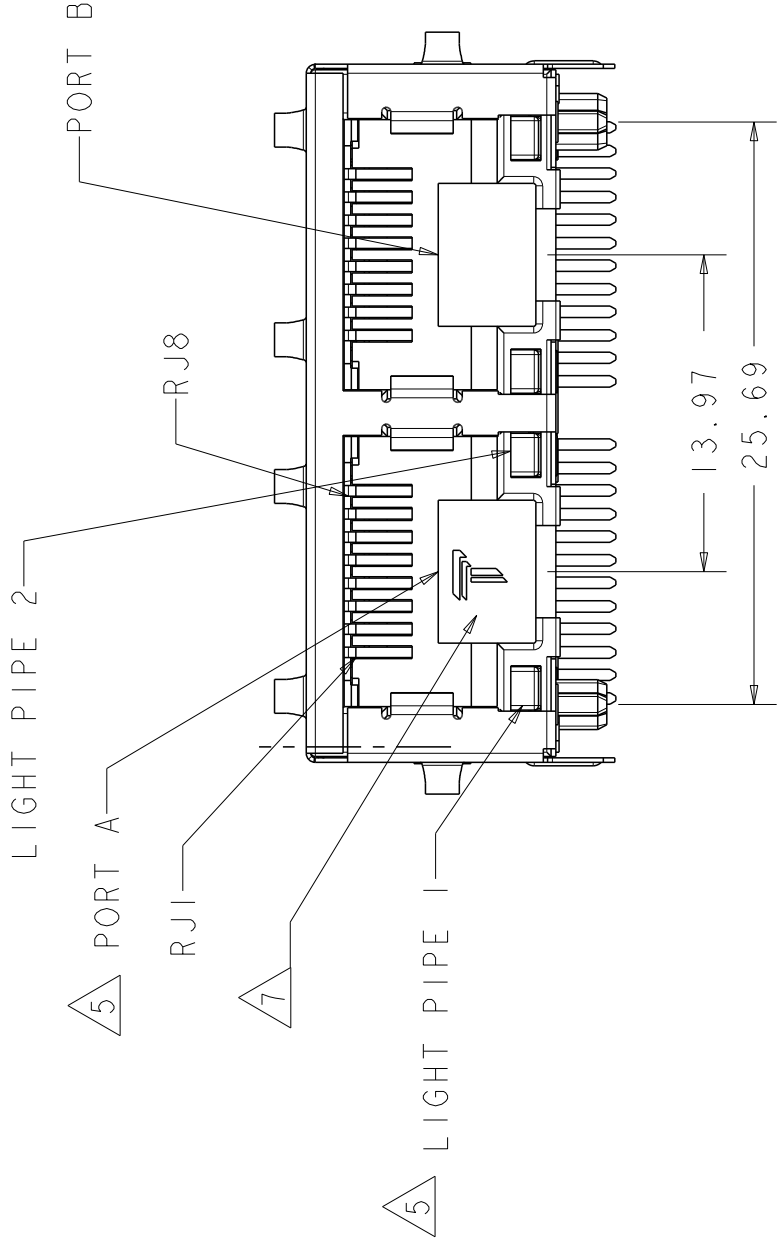
PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
5736910 5939955 6425781 6428361 6554638 6840817 7123117
7429195 7717749 7808751 6217391 6149050 7924130

REVISONS			
P	LTR	DESCRIPTION	DATE
	D	LOGO CHANGE	26APR2013
	E	EC-1411035 COMPANY LOGO CHANGE	14JAN2015
			TYR
			KZ
			APVD



- 1 MATERIALS:
- HOUSING: THERMOPLASTIC, BLACK, FLAMMABILITY RATING UL 94V-0
 - SHIELD: BRASS, THICKNESS = 0.2mm, PREPLATED WITH MIN 0.76 μ m SEMI-BRIGHT NICKEL, POST DIPPED WITH 2.54 μ m MIN SAC
 - ALLOY LEAD FREE SOLDER AT GROUND PINS
 - CONTACT: PHOSPHOR BRONZE, 0.25mm THICK 0.46mm WIDE, PREPLATED WITH 1.27 μ m MIN NICKEL OVERALL UNDERPLATE AND SELECTIVE 1.27 μ m MIN GOLD PLATED ON MATING INTERFACE
 - CONTACT TAIL: PHOSPHOR BRONZE, 0.3mm THICK, WITH 1.27 μ m MIN NICKEL OVERALL UNDERPLATE AND 2.54 μ m MIN MATTE TIN OVERALL PLATED
 - LIGHT PIPE: POLYETHER SULFONE, TRANSPARENT, RATING UL 94V-0

- 2 MAGNETIC:
- APPLICATIONS: 10/100/1000 BASE-T
 - IMPEDANCE: 100 OHMS +/-15%
 - TURNS RATIO (CHIP:CABLE): 1:1 ALL 4 PAIRS
 - OPEN CIRCUIT INDUCTANCE(OCL): 350 uH MIN AT 100kHz, 0.1VRMS 8mA DC BIAS, FROM 0°C TO 70°C. ALL 4 PAIRS
 - ALL 4 PAIRS ARE BI-DIRECTIONAL.
 - PERFORMANCE AT 25 °C:
 - INSERTION LOSS(IL): 1.1dB MAX FROM 0.5M Hz TO 100M Hz.
 - RETURN LOSS(RL): 18dB MIN FROM 0.5MHz TO 40MHz
 - 12-20LOG(f/80) MIN FROM 40.1MHz TO 100MHz.
 - CROSS TALK ATTENUATION : 35 dB MIN FROM 0.5MHz TO 40MHz.
 - 33- 20LOG(f/50)dB MIN FORM 40.1MHz TO 100MHz.
 - ISOLATION VOLTAGE:
 - COMPLIES WITH IEEE802.3 2002, PARA 40.6.1.1, ITEM b



- 3 THE MAGNETIC CIRCUIT IS SYMMETRICAL AND SUPPORTS AUTO-MDIX OPERATION.

4. OPERATING TEMPERATURE: FROM 0°C TO 70°C.

- 5 LIGHT PIPES PROVIDED TO GUIDE LIGHT FROM SURFACE MOUNT LEDS LOCATED ON CUSTOMER PC BOARD. RECOMMENDED LEDS ARE:
- LED 1 EVERLIGHT 27-21UYC-S530-XX-TR8 OR EQUIVALENT
 - LED 2 EVERLIGHT 12-22SURSVC/S530-A3/E2/TR8 OR EQUIVALENT.

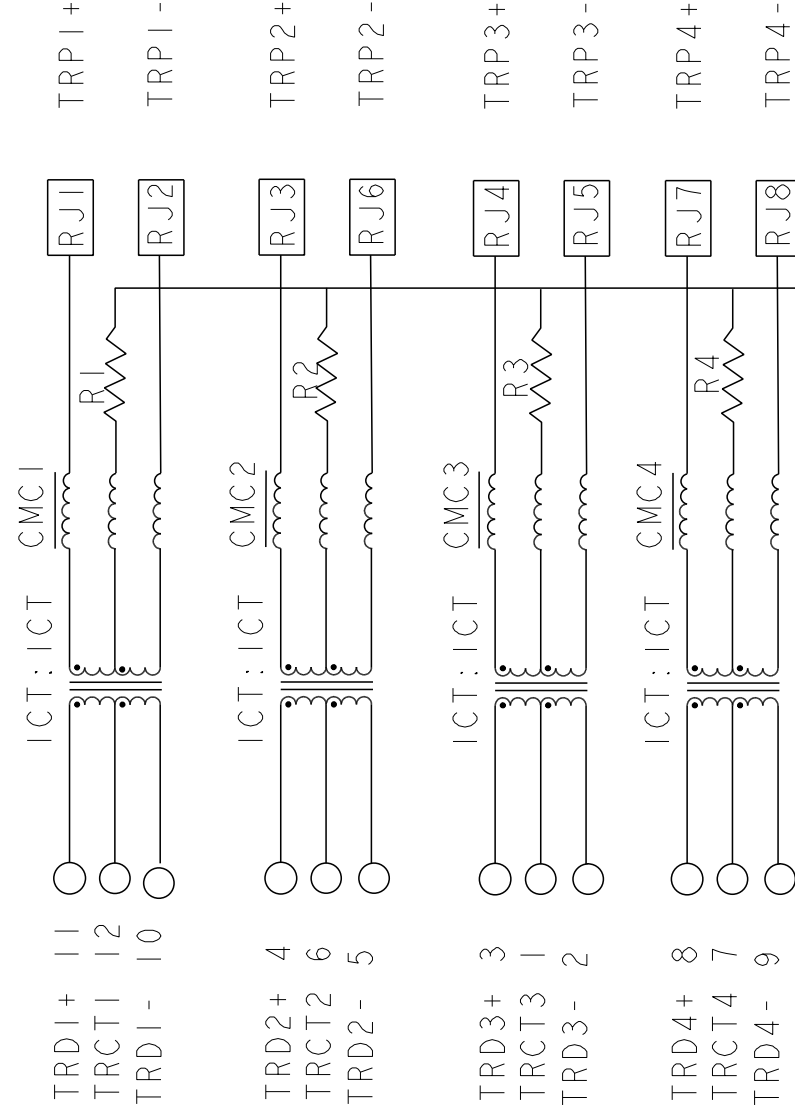
6. ALL DIMENSIONS ARE NOMINAL UNLESS OTHERWISE NOTED.

- 7 RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68 SUBPART F.

- 8 TRP CONNECTOR LOGO, PART NO., DATE CODE, COUNTRY OF ORIGIN, AND ARE TO BE MARKED AT APPROXIMATE LOCATION, DATE CODE: YYWWD "YY" IS YEAR, "WW" IS WORK WEEK, "D" ID DAY OF WEEK WITH SUNDAY=1

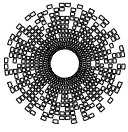
- 9 DIMENSION A AND DIMENSION B TO BE ESTABLISHED BY CUSTOMER. THESE DIMENSIONS SHOULD CONSIDER THE PROCESS TOLERANCES FOR THE CUSTOMER PCB TO ENSURE THAT LEDS ARE OPTIMALLY POSITIONED NEAR THE LIGHTPIPES. LED POSITION THAT DOES NOT FOLLOW THE RECOMMENDED POSITIONING MAY CAUSE MECHANICAL INTERFERENCE BETWEEN LED AND LIGHTPIPE OR IT MAY DEGRADE ILLUMINATION THROUGH THE LIGHTPIPE.

10. PART SHOULD BE COMPLIANT TO BOTH WAVE SOLDERING PROCESS, PREHEAT TEMPERATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS, PEAK SOLDERING TEMPERATURE IS 260°C MAX, 10 SECONDS MAX, AND IR REFLOW SOLDERING PROCESS, PEAK SOLDERING TEMPERATURE 260°C MAX, DURATION TIME 10 SECONDS MAX, OVER 230°C WITHIN 40-60 SECONDS.



C1=1000 PF, 3KV, $\pm$ 10%, X7R, DECOUPLING CAP
R1-R4=75 OHM, 1/16W, $\pm$ 5% RESISTOR

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 17MAR2008				DONGGUAN CHINA							
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		CHK 17MAR2008									
				APVD 17MAR2008									
				MODEL NAME	DESC								
				MAGJACK		IX2 8G18 GIGABIT TAB DOWN LOW PROFILE NO LED W/ LIGHTPIPE							
				GANG NON-POE		RESTRICTED TO							
PRODUCT SPEC	108-104004	- APPLICATION SPEC		A2		SIZE	CAGE CODE	DRAWING NO	C=1840547	SCALE	SHEET	OF	REV



DONGGUAN CHINA

OBSOLETE

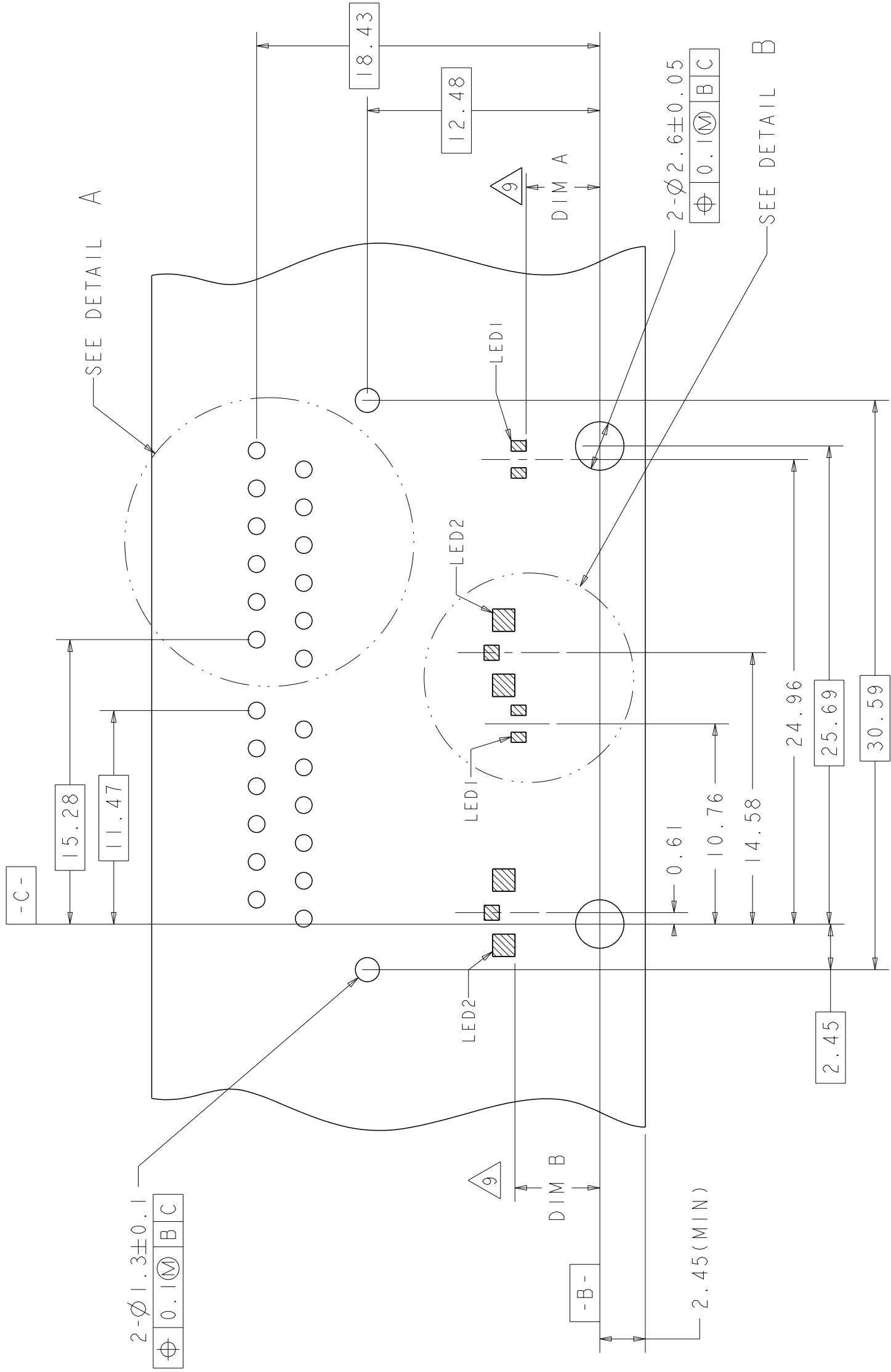
OBSOLETE

PART NUMBER

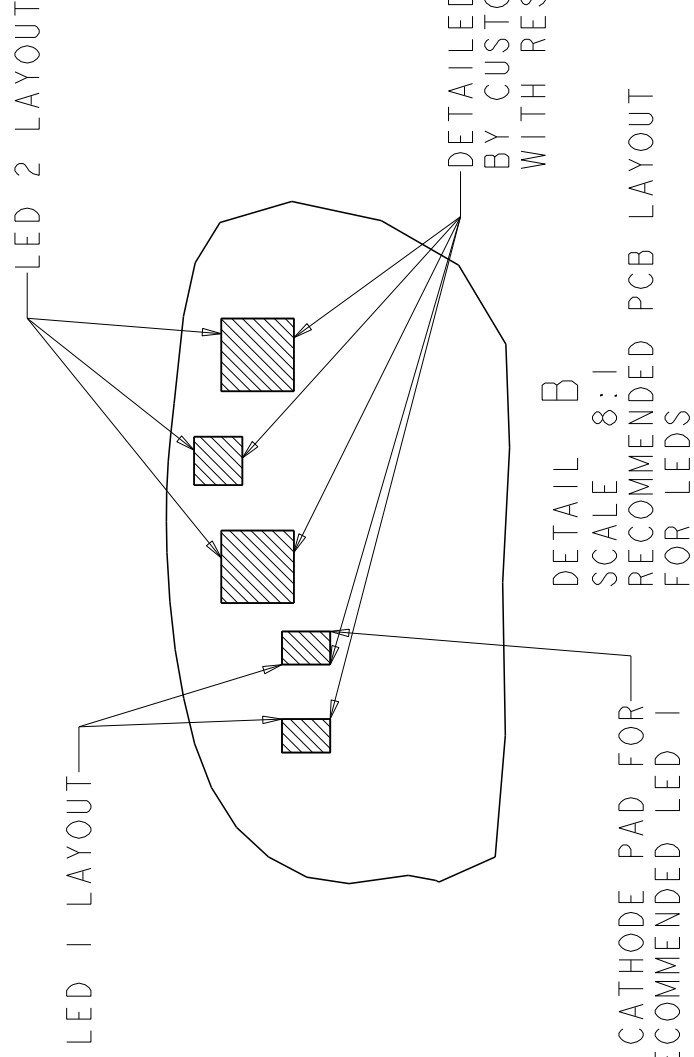
7-1840547-2

7-1840547-1

7-1840547-3



RECOMMENDED PCB LAYOUT
COMPONENT SIDE

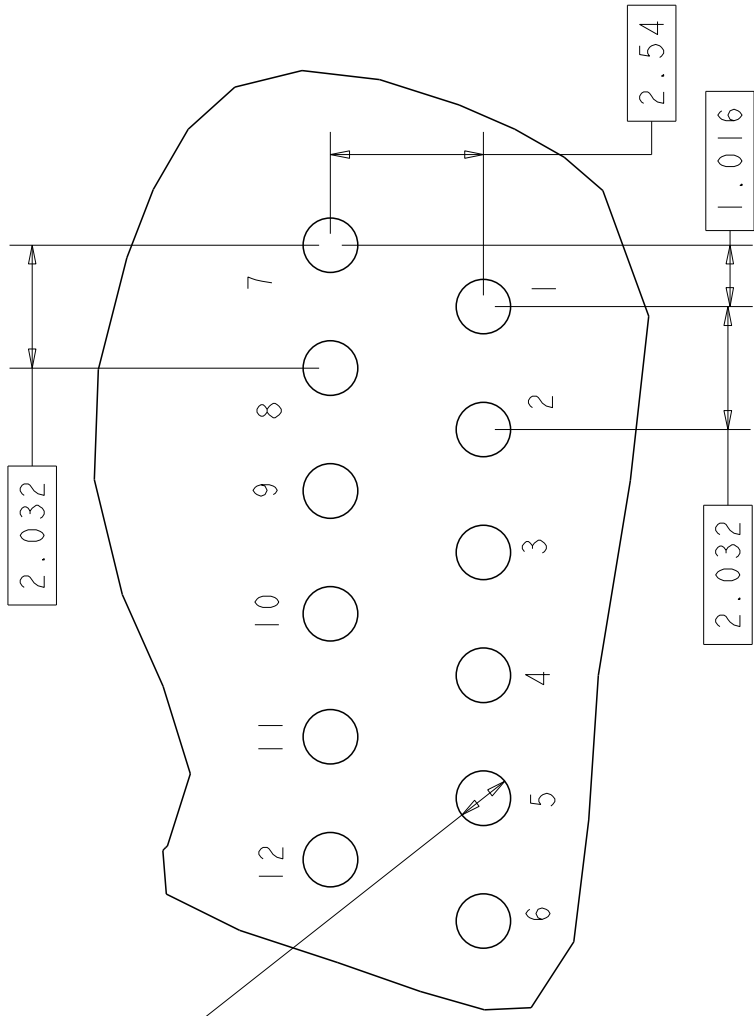


DETAILED DIMENSIONS ESTABLISHED
BY CUSTOMER IN ACCORDANCE
WITH RESPECTIVE LED

DETAIL B
SCALE 8:1
RECOMMENDED PCB LAYOUT
FOR LEDs

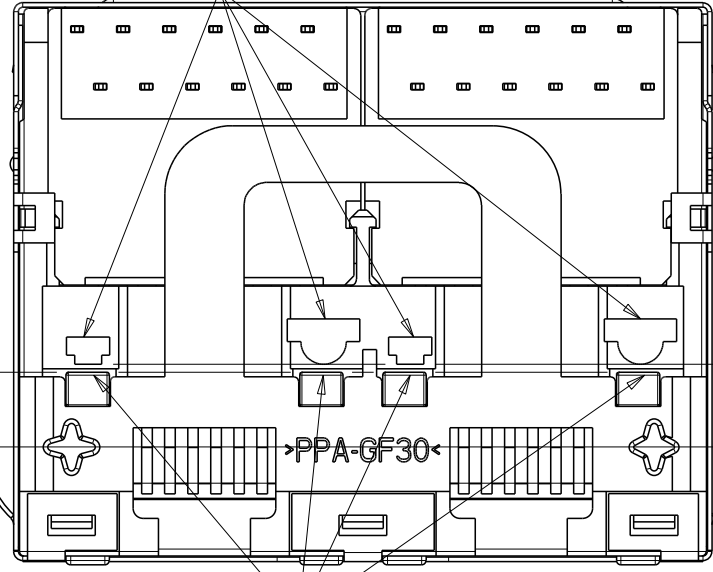
1.6 REF

24-Ø0.9±0.05
Ø0.1(0.1) B C



DETAIL A
SCALE 8:1

3.3±0.18
POSITION OF LIGHTPIPE
WINDOW ON THE CONNECTOR



LIGHT
PIPE

3.65+0.25-0.17
RECOMMENDED DIMENSION FOR
FRONT FACE OF CUSTOMER LEDs.

RECOMMENDED LED POSITIONS
BOTTOM VIEW

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN TONY YUAN 17MAR2008	 DONGGUAN CHINA		
DIMENSIONS: mm		CHK KEITH ZHU 17MAR2008	DESC MAGJACK GANG NON-POE IX2 8G18 GIGABIT TAB DOWN LOW PROFILE NO LED W/ LIGHTPIPE RESTRICTED TO		
		APVD TEDDY XIONG 17MAR2008			
		MODEL NAME			
TOLERANCES UNLESS OTHERWISE SPECIFIED:		SIZE CAGE CODE DRAWING NO		RESTRICTED TO	
0. PLC 1. PLC 2. PLC 3. PLC 4. PLC		±0. ±0.25 ±0.25 ±0.25 ±0.25		A2 C=1840547	
ANGLES		±			
APPLICATION SPEC		-			
PRODUCT SPEC		108-104004			
CUSTOMER DRAWING		SCALE 3:1		SHEET 2 OF 2	
				REV E	