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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

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1

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	D	LOGO CHANGE	28APR2013	TY	KZ
	E	EC-1411035 COMPANY LOGO CHANGE	14JAN2015	TYR	TYN

1

MATERIALS:

HOUSING: THERMOPLASTIC, BLACK, FLAMMABILITY RATING UL 94V-0

SHIELD: BRASS, THICKNESS = 0.2mm, PREPLATED WITH MIN 0.76 um

SEMI-BRIGHT NICKEL, POST DIPPED WITH 2.54 um MIN SAC

ALLOY LEAD FREE SOLDER AT GROUND PINS

CONTACT: PHOSPHOR BRONZE, 0.25mm THICK, 0.46mm WIDE, PREPLATED WITH 1.27um MIN NICKEL OVERALL UNDERPLATE AND SELECTIVE 1.27 um

MIN GOLD PLATED ON MATING INTERFACE

CONTACT TAIL: PHOSPHOR BRONZE, 0.3mm THICK, WITH 1.27um MIN NICKEL OVERALL UNDERPLATE AND 2.54 um 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(OC): 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

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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 12-22SURSYGC/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: YYWD

"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.

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30.79

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1840547-X

YYWD

CHINA

5

PORT A

7

RJ1

5

LIGHT PIPE 1

7

RJ8

5

PORT B

13.97

25.69

24.85

1.4

11.15

2.1

5.05

2.6

2.50

8G18 GIGABIT CIRCUIT

2

3

TRD1+ 11

TRCT1 12

TRD1- 10

ICT: ICT

CMC1

R1

RJ1

TRP1+

TRP1-

TRD2+ 4

TRCT2 6

TRD2- 5

ICT: ICT

CMC2

R2

RJ3

TRP2+

TRP2-

TRD3+ 3

TRCT3 1

TRD3- 2

ICT: ICT

CMC3

R3

RJ4

TRP3+

TRP3-

TRD4+ 8

TRCT4 7

TRD4- 9

ICT: ICT

CMC4

R4

RJ7

TRP4+

TRP4-

CI

SHIELD

CI=1000 PF, 3KV, ±10%, X7R, DECOUPLING CAP

RI-R4=75 OHM, 1/16W, ±5% RESISTOR

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:

mm

PRODUCT SPEC

108-104004

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ±

1 PLC ±0.25

2 PLC ±0.25

3 PLC ±0.25

4 PLC ±

ANGLES ±

APPLICATION SPEC

DWN

TONY YUAN

17MAR2008

CHK

KEITH ZHU

17MAR2008

APVD

TEDDY XIONG

17MAR2008

MODEL NAME

MAGJACK

GANG NON-POE

DESC

IX2 8G18 GIGABIT TAB DOWN

LOW PROFILE NO LED W/ LIGHTPIPE

SIZE

A2

CAGE CODE

DRAWING NO

C=1840547

RESTRICTED TO

-

CUSTOMER DRAWING

SCALE

3:1

SHEET

1

OF

2

REV

E

trp

CONNECTOR

a bel group

DONGGUAN

CHINA

7-1840547-2

OBSOLETE

7-1840547-1

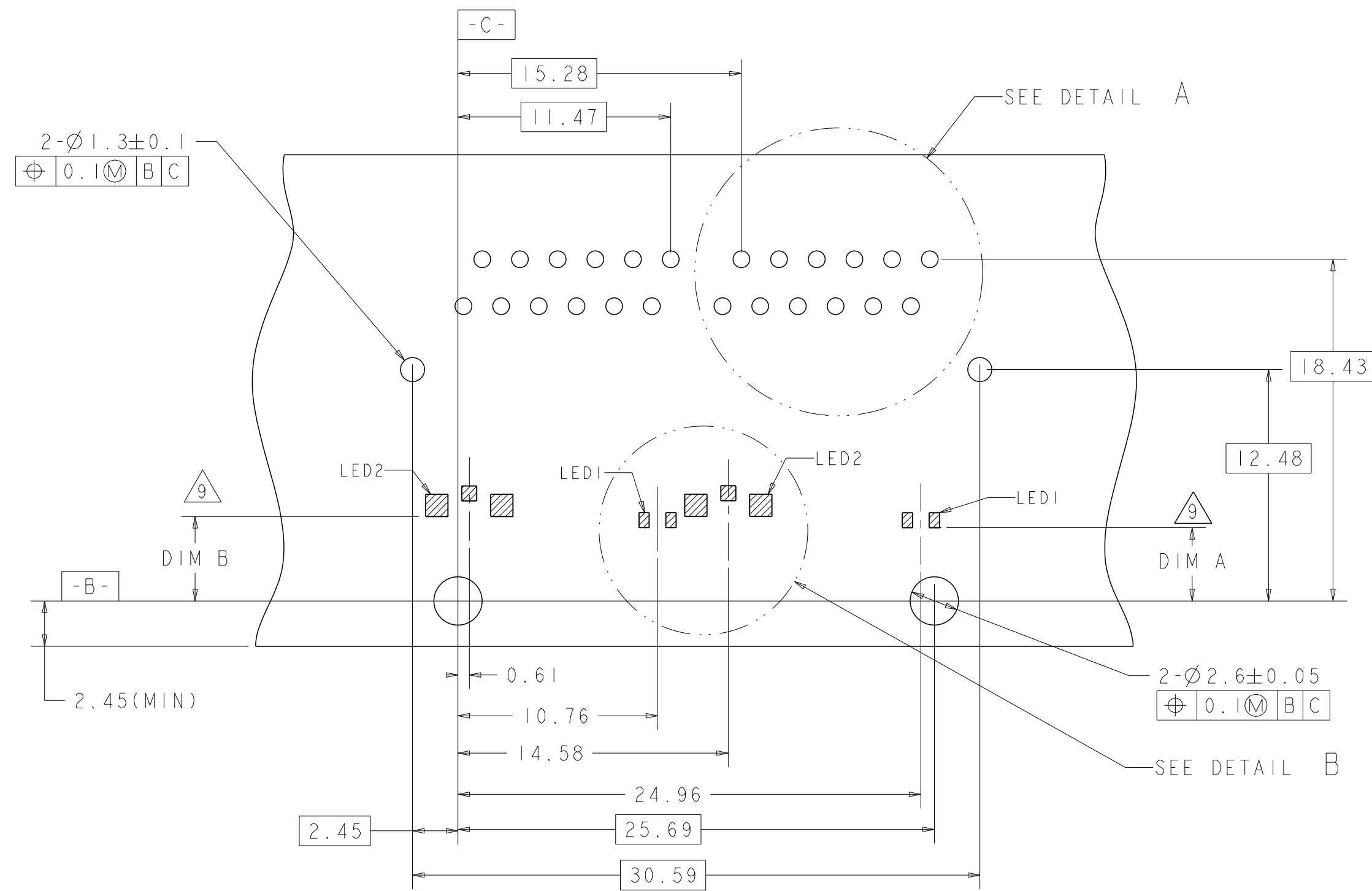
OBSOLETE

7-1840547-3

PART NUMBER

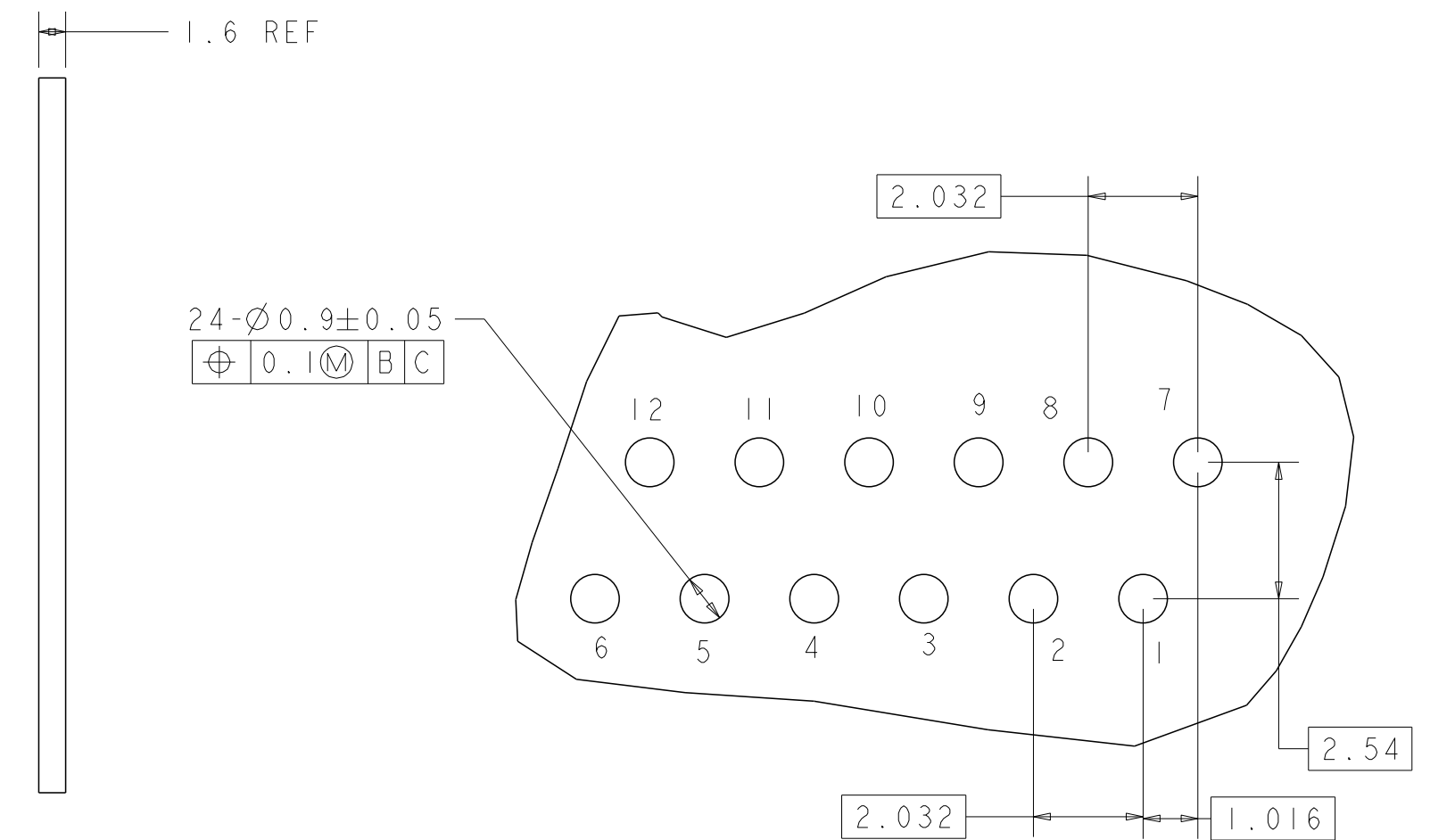
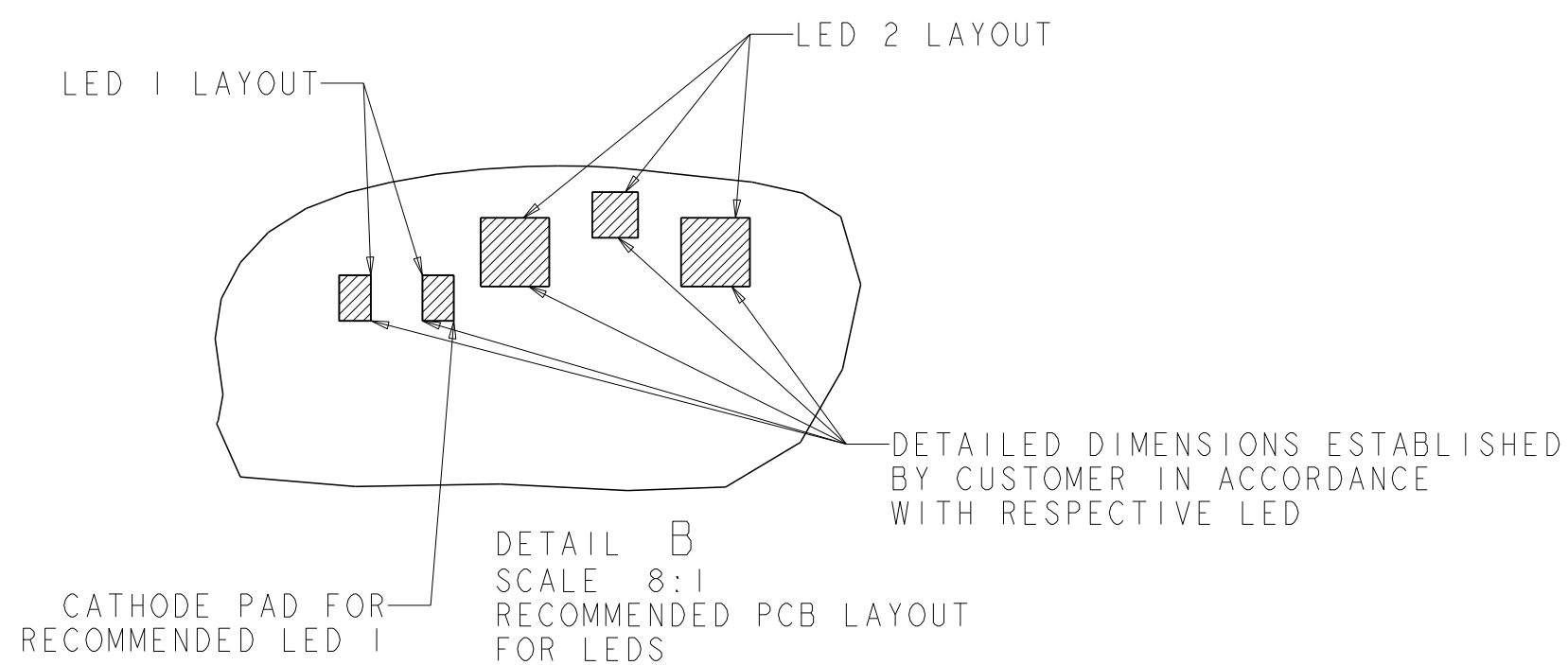
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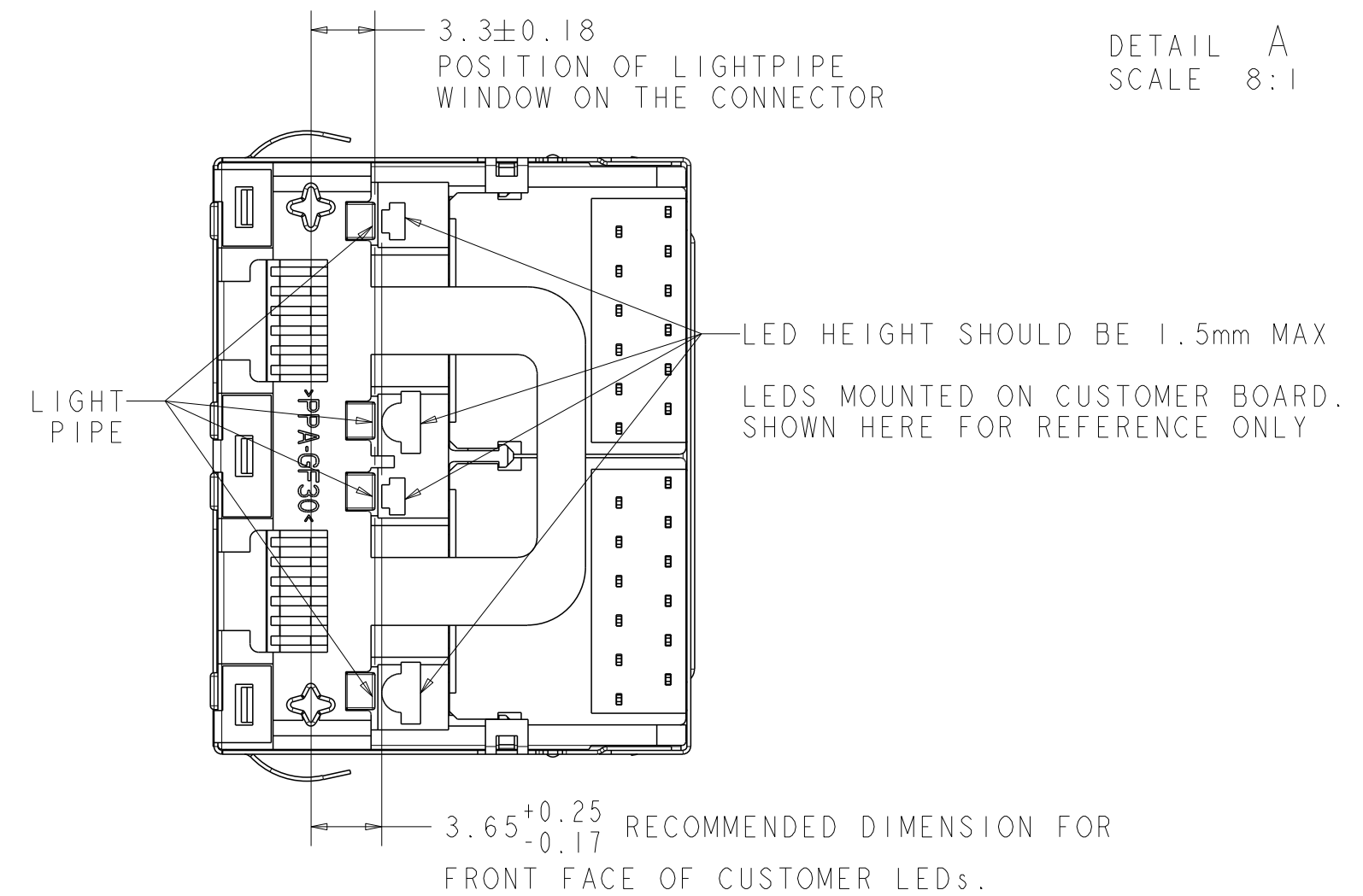


RECOMMENDED PCB LAYOUT

COMPONENT SIDE





DETAIL A
SCALE 8:1



RECOMMENDED LED POSITIONS

BOTTOM VIEW

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN TONY YUAN 17MAR2008		 trp CONNECTOR a bel group		DONGGUAN CHINA	
DIMENSIONS: mm		CHK KEITH ZHU 17MAR2008					
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD TEDDY XIANG 17MAR2008					
		0 PLC ± 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ± ANGLES ± APPLICATION SPEC		MODEL NAME MAGJACK GANG NON-POE		DESC 1X2 8G18 GIGABIT TAB DOWN LOW PROFILE NO LED W/ LIGHTPIPE	
PRODUCT SPEC 108-104004				SIZE A2	CAGE CODE	DRAWING NO C=1840547	RESTRICTED TO -
CUSTOMER DRAWING				SCALE 3:1	SHEET 2	OF 2	REV F