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LED 3 POLARITY				LED 4 POLARITY					
PIN	19	PIN	20	COLOR	PIN	21	PIN	22	COLOR
+		_		YFI I UM	+ -		GRFFN		



ELECTRICAL CHARACTERISTICS	<u>e 25°C</u>	LED 3
TURNS RATIO	1CT : 1CT ±3%	
TX	1CT : 1CT ±3%	YELLOW (文)
RX	ICI : ICI ±3%	20
OCL @ 100kHz/100mVRMS	OFO II MIN	
8mA DC BIAS	350µH MIN.	107
INS. LOSS		TD+ 8 • 1CT :
1MHz T□ 100MHz	-1.0 dB MAX	L
RET. LOSS (MIN)		TCT 9 • - 3
1MHz-30MHz	-18 dB	3  8
30MHz-60MHz	-18+20LDG(F/30MHz) dB	TD- 10 •
60MHz-80MHz	-12 dB	1 D 10 -
CROSS TALK (TX - RX)	<b></b>	
500kHz-1MHz	-70 dB MIN	
10 MHz	-50 dB MIN	
30 MHz	-45 dB MIN	RD+ 11 • 1CT :
50 MHz	-40 dB MIN	L
100 MHz	-35 dB MIN	TCT 12 •
CM TO CM REJ		3  8
100kHz-1MHz	-70 dB MIN	RD- 13 •
10 MHz	-47 dB MIN	KD- 13 •
30 MHz	-42 dB MIN	
60 MHz	-37 dB MIN	
100 MHz	-30 dB MIN	
CM TO DM REJ		LED 4
100kHz-1MHz	-70 dB MIN	21 •————————————————————————————————————
10 MHz	-60 dB MIN	
30 MHz	-50 dB MIN	GREEN (文)
60 MHz	-45 dB MIN	22 //
100 MHz	-40 dB MIN	22 •
HIPOT (Isolation Voltage):	1500 Vrms	
LED 3 (Super bright)		CND 44
VF (FORWARD VOLTAGE)	IF=20mA YELLOW 2.1V TYP.	GND 14 •
ÆD (DOMINANT WAVELENGTH)	IF=20mA YELLOW 590nm TYP,	
LED 4 (Super bright)		
VF (FORWARD VOLTAGE)	IF=20mA GREEN 2.2V TYP.	
⟨D□MINANT WAVELENGTH⟩	IF=20mA GREEN 565nm TYP.	

YELLOW (\$)	<u>SCHEMATIC</u> (UPPER PORT) PORT 2	
20		
TD+ 8 •-  TCT 9 •-  TD- 10 •-	1CT : 1CT	1 TX+
RD+ 11 ← TCT 12 ← RD- 13 ←	1CT : 1CT	3 RX+ 4 5 6 RX- 7
21 LED 4 GREEN 22 GREEN 22 GND 14 •	4X 75ohm \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	8
	SHIELD 7777	

SCHEMATIC

ORIGINATED BY	HUNG 12-14-05  WN BY DATE		
CHUNG	12-14-05		
DRAWN BY	DATE		
DE	12-14-05		

2X1 MagJack® (with LED)

TITLE

PART NO. / DRAWING NO.
0845-2D1T-H5

FILE NAME
08452D1TH5B.DWG

STANDARD DIM.
TOL. IN INCH
UN
.X SC
.XX SC

UNIT: INCH [mm] REV.: B
SCALE: N/A SIZE: A4

: N/A SIZE : A4
PAGE : 2



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LED	LED 2 POLARITY						
PIN 15	PIN 16	COLOR	PIN	17	PIN	18	COLOR
+	-	YELLOW	+		_		GREEN



## ELECTRICAL CHARACTERISTICS @ 25°C

TURNS RATIO 1CT : 1CT ±3% ΤX RX 1CT : 1CT ±3% □CL @ 100kHz/100mVRMS 8mA DC BIAS 350µH MIN. INS. LOSS 1MHz T□ 100MHz -1.0 dB MAX RET. LOSS (MIN) -18 dB 1MHz-30MHz  $-18+20L\Box G(F/30MHz) dB$ 30MHz-60MHz -12 dB 60MHz-80MHz

CROSS TALK (TX - RX) 500kHz-1MHz 10 MHz

-50 dB MIN 30 MHz -45 dB MIN 50 MHz -40 dB MIN 100 MHz -35 dB MIN CM TO CM REJ

100kHz-1MHz -70 dB MIN 10 MHz -47 dB MIN 30 MHz -42 dB MIN 60 MHz -37 dB MIN 100 MHz -30 dB MIN

CM TO DM REJ 100kHz-1MHz -70 dB MIN 10 MHz -60 dB MIN 30 MHz -50 dB MIN 60 MHz -45 dB MIN 100 MHz -40 dB MIN HIPOT (Isolation Voltage): 1500 Vrms

LED 1 VF (FORWARD VOLTAGE) IF=20mA YELLOW 2.1V TYP. IF=20mA YELLOW 590nm TYP. ⟨D□MINANT WAVELENGTH⟩

LED 5

VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP. IF=20mA GREEN 565nm TYP. AD (DOMINANT WAVELENGTH)

TITLE

## SCHEMATIC

	SCHEMATIC	
LED 1	(LOWER PORT) PORT 1	_
15 YELLOW 16 TD+ 1 TCT 2 TD- 3	1CT : 1CT	1 TX+
RD+ 4 ← TCT 5 ← RD- 6 ←	1CT : 1CT	3 RX+ 4 5 6 RX- 7
17 LED 2 GREEN THE GREEN T	4X 75ohm \$ \$ \$ \$ 1000pF, 2kV	8
	SHIELD 7777	J

ORIGIN	ATED BY	DATE
CHUI	NG	12-14-05
DRAWN	BY	DATE

2X1 MagJack® (with LED)

-70 dB MIN

PART NO. / DRAWING NO. 0845-2D1T-H5 FILE NAME

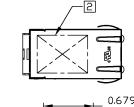
08452D1TH5B.DWG

STANDARD DIM. TOL. IN INCH X. XX. .XXX

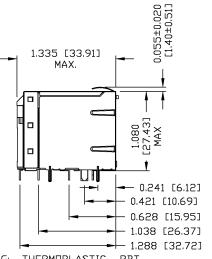
[ ] METRIC DIM. AS REFERENCE UNIT : INCH [mm] REV. : B SCALE: N/A SIZE: A4 PAGE: 3



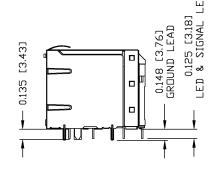
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0.679 [17.25] MAX. 0.055±0.020 [1.40±0.51] LED 3 LED 4 PORT 2 NOTE 1 RJ45 1 RJ45 1 LED 1 PORT 1 LED 2 0,433 [11,00] 0.643 [16.33] 0.516 [13.11]



NOTES:

PLASTIC HOUSING: CONTACT PLATING:

THERMOPI ASTIC PBT

FLAMMABILITY RATING UL 94V-0 50 MICRO-INCH HARD GOLD PLATING

**DUTPUT PINS:** TIN-COATED COPPER WIRE, DIA 0.018 INCH.

METAL SHIELD: NICKEL PLATED ON COPPER ALLOY.

(ALL GROUND LEADS ARE SOLDER DIPPED)

1. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.

[2] MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, AND DATE CODE.

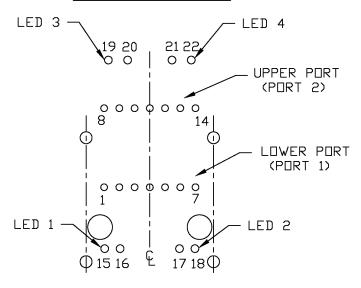
RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC.

₽ PILLE RECOGNIZED - FILE #E196366 AND E169987.

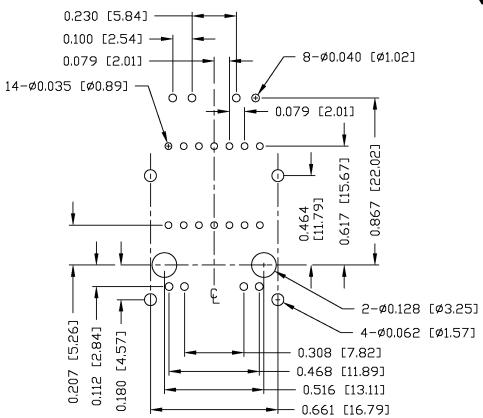
0 1 2 0 0 0	REGERITZED	1 122 112170000 THVD 21077071						
ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDA	ARD DIM.	[ ] METRIC DIM. AS	REFERENCE	Γ.
BILL/KEUNG	12-14-05	2X1 MagJack®	0845-2D1T-H5	TOL.	IN INCH	UNIT : INCH [mm]	REV. : B	П
DRAWN BY	DATE	(with LED)	FILE NAME	.x .xx		SCALE : N/A	SIZE: A4	
QIN	12-14-05		08452D1TH5B.DWG	.XXX	±0.010	<b>—</b>	PAGE: 4	L
DCOOO(O)OOOOO	OCCOS(2)099905  This decoment is electronically generated. This is a centralled conv. if used internally							



# LED CONFIGURATION



PIN-DUT INFORMATION (COMPONENT SIDE VIEW) (SCALE 2:1)

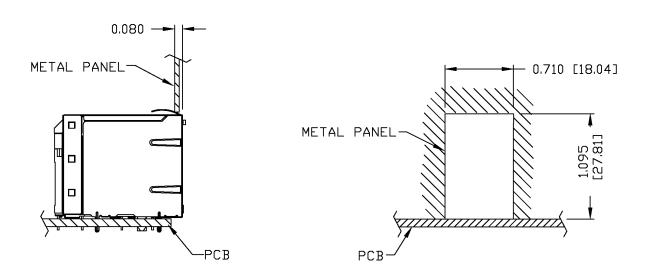


SUGGESTED FOOTPRINT (COMPONENT SIDE VIEW) ( SCALE 2:1)

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STAND	ARD DIM.	[ ] METRIC DIM. AS	S REFERENCE	
BILL/KEUNG	12-14-05	2X1 MagJack®	0845-2D1T-H5	TOL.	IN INCH	UNIT : INCH [mm]	REV. : B	1
DRAWN BY	DATE	(with LED)	FILE NAME	- <u>.x</u>		SCALE: N/A	SIZE: A4	co
QIN	12-14-05		08452D1TH5B.DWG	.XXX	±0.010		PAGE: 5	P

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### SUGGESTED PANEL OPENING



#### NOTE:

THE DISTANCE OF PANEL INSIDE SURFACE RELATIVE TO FRONT SURFACE OF PART IS ONLY A SUGGESTION. IN CASE THIS DISTANCE IS DIFFERENT, THE REQUIRED PANEL OPENING DIMENSIONS CHANGE ACCORDINGLY.

#### PACKING INFORMATION

PACKING TRAY:

0200-9999-H5 (TOP)

0200-9999-H6 (BOTTOM)

PACKING QUANTITY: 40 PCS FINISHED GOODS PER TRAY

6 TRAYS (240 PCS FINISHED GOODS) PER CARTON BOX.

NOTE: CARDBOARD ARE PLACED BETWEEN LAYERS OF PACKING TRAY INSIDE CARTON BOX.

(INCLUDE THE UPPERMOST AND LOWEREST TRAY)

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDA	ARD DIM.	[ ] METRIC DIM. AS	REFERENCE	
BILL/KEUNG	12-14-05	2X1 MagJack®	0845-2D1T-H5	TOL. I	N INCH	UNIT : INCH [mm]	REV. : B	1
DRAWN BY	DATE	(with LED)	FILE NAME	.X		SCALE: N/A	SIZE : A4	T
QIN	12-14-05	(#1011 225)	08452D1TH5B.DWG	.XXX	±0,005	<b>—</b>	PAGE: 6	Ľ

