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LED1 POLARITY			LED2 POLARITY		
PIN 27	PIN 28	COLOR	PIN 29	PIN 30	COLOR
-	+	GREEN	+	-	YELLOW
			-	+	GREEN

ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

TP1	1CT : 1CT	±2%
TP2	1CT : 1CT	±2%
TP3	1CT : 1CT	±2%
TP4	1CT : 1CT	±2%
OCCL @ 100kHz, 100mVRMS	350 μH MIN.	
8mA DC BIAS		
INS. LOSS		
100KHz TO 100MHz	-1.1 dB MAX	
RET. LOSS (MIN)		
1MHz-30MHz	-18 dB	
30MHz-60MHz	-16 dB	
60MHz-80MHz	-14 dB	
80MHz-100MHz	-12 dB	
CM TO CM REJ		
100kHz - 100MHz	-25 dB TYP	
CROSS TALK		
1MHz - 60MHz	-35 dB TYP	
60MHz - 100MHz	-25 dB TYP	
HIPOT (Isolation Voltage):	1500 Vrms	
100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS.		

INTERWINDING CAPACITANCE

PER CHANNEL (PRI. TO SEC.)	50pF Max @ 1MHz
DC RESISTANCE	
(21-15)=(16-23)=(24-18)=(19-26)	1.2 ohms Max
(RJ1-RJ2)=(RJ3-RJ6)=(RJ4-RJ5)=(RJ7-RJ8)	1.2 ohms Max

LED 1

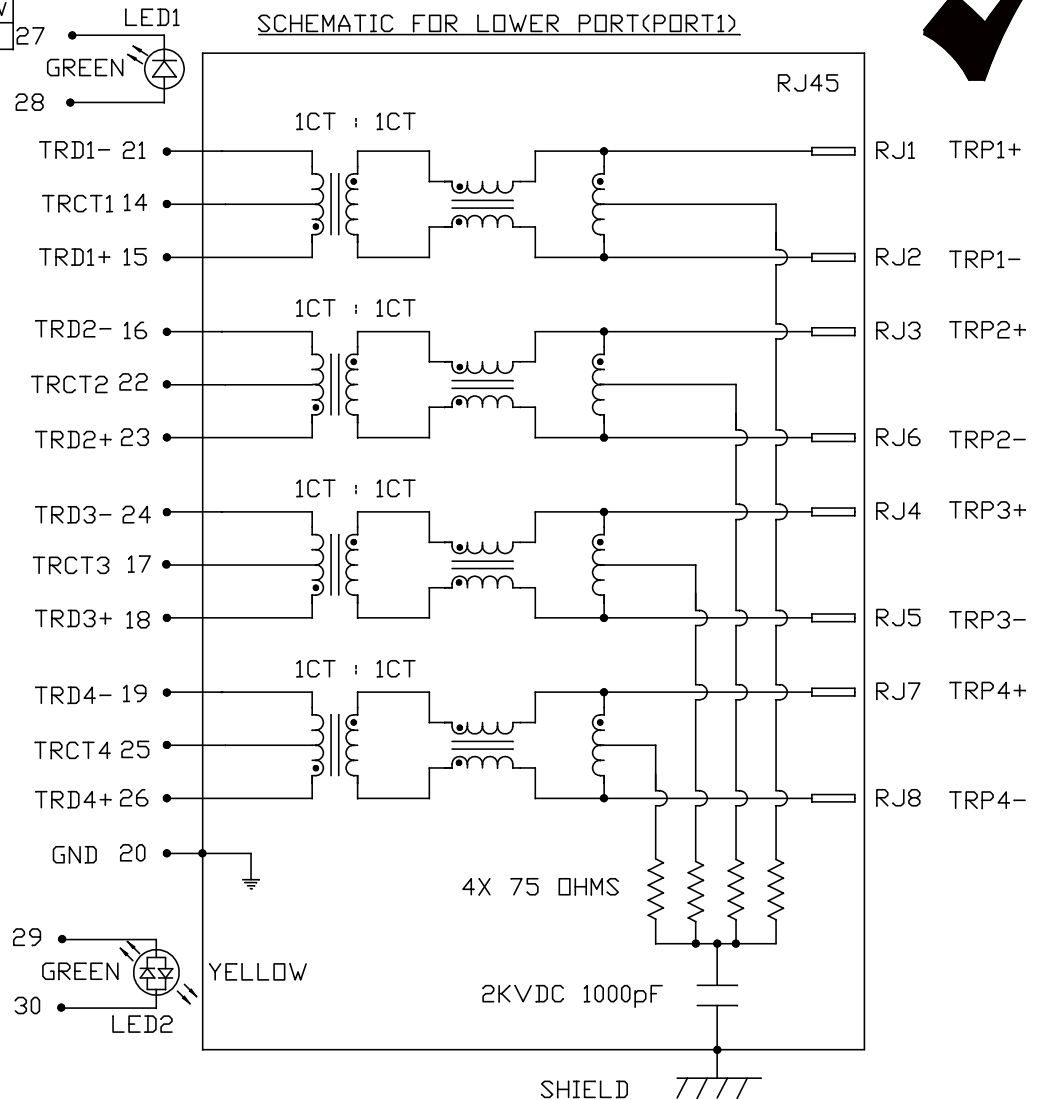
VF (FORWARD VOLTAGE)	IF=20mA	GREEN	2.2V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA	GREEN	570nm TYP.

LED 2

VF (FORWARD VOLTAGE)	IF=20mA	GREEN	2.2V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA	YELLOW	2.1V TYP.
	IF=20mA	GREEN	570nm TYP.
		YELLOW	590nm TYP.

OPERATING TEMPERATURE: 0°C TO +70°C.

SCHEMATIC FOR LOWER PORT (PORT1)



RoHS



ORIGINATED BY
CHOW WANCHUNG
DATE 2017-02-25

DRAWN BY
XIE YIMING
DATE 2017-02-25

TITLE
2X1 gigabit MagJack®
(WITH LED)
PATENTED

PART NO. / DRAWING NO.
0845-2R1T-E4

FILE NAME
0845-2R1T-E4_H.DWG

STANDARD DIM.
TOL. IN INCH

.X
.XX
.XXX

[] METRIC DIM.
AS REF.

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

REV. : H

PAGE : 2



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ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

TP1	1CT : 1CT ±2%
TP2	1CT : 1CT ±2%
TP3	1CT : 1CT ±2%
TP4	1CT : 1CT ±2%

CL @ 100kHz,100mVRMS

8mA DC BIAS 350 µH MIN.

INS. LOSS

100kHz TO 100MHZ -1.1 dB MAX

RET. LOSS (MIN)

1MHz-30MHz -18 dB

30MHz-60MHz -16 dB

60MHz-80MHz -14 dB

80MHz-100MHz -12 dB

CM TO CM REJ

100kHz - 100MHz -25 dB TYP

CROSS TALK

1MHz - 60MHz -35 dB TYP

60MHz - 100MHz -25 dB TYP

HIPOT (Isolation Voltage): 1500 Vrms

100% OF PRODUCTION TESTED TO COMPLY WITH IEEE 802.3 ISOLATION REQUIREMENTS.

INTERWINDING CAPACITANCE

PER CHANNEL (PRI. TO SEC.) 50pF Max @ 1MHz

DC RESISTANCE

(13-6)=(5-11)=(10-3)=(2-8) 1.2 ohms Max

(RJ1-RJ2)=(RJ3-RJ6)=(RJ4-RJ5)=(RJ7-RJ8) 1.2 ohms Max

LED 3 (Super bright)

VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.

AD (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP.

LED 4 (Super bright)

VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.

AD (DOMINANT WAVELENGTH) IF=20mA GREEN 570nm TYP.

IF=20mA GREEN 570nm TYP.

IF=20mA GREEN 570nm TYP.

OPERATING TEMPERATURE: 0°C TO +70°C.

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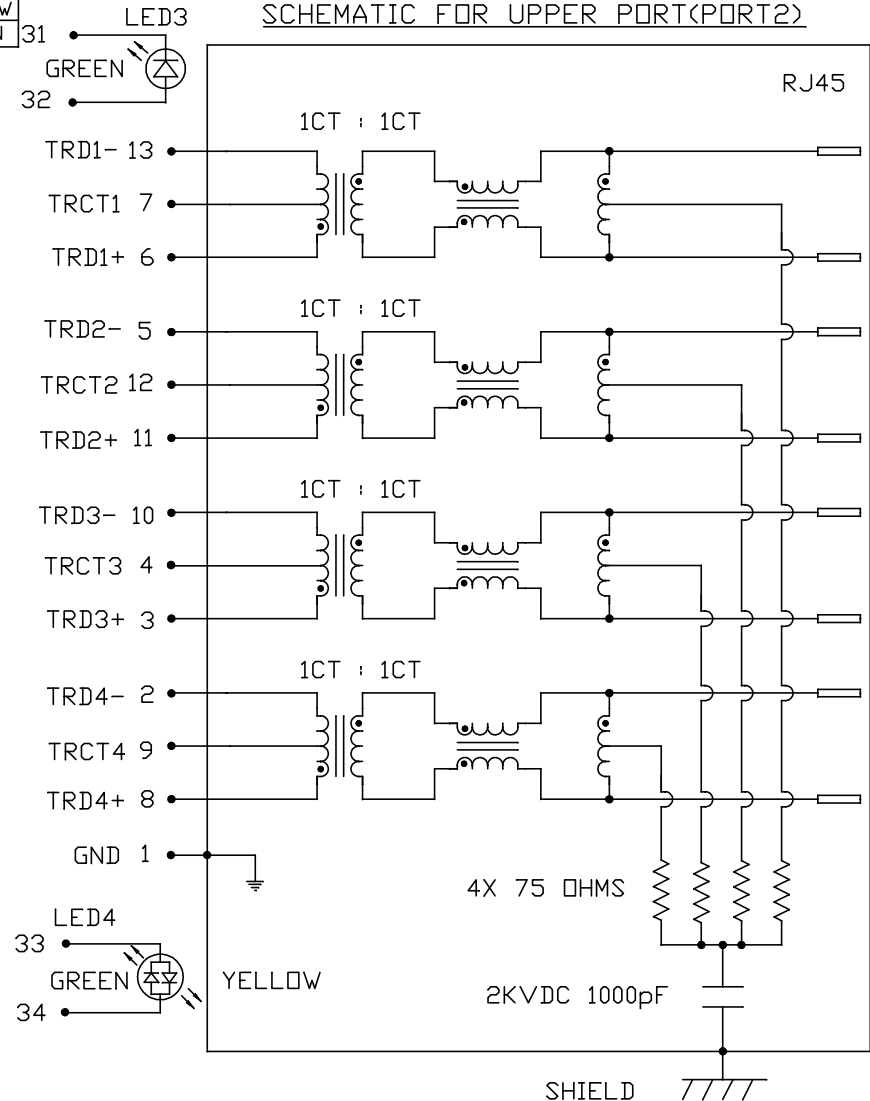
FILE NAME
0845-2R1T-E4_H.DWG

STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REF.
.X	UNIT : INCH [mm]
.XX	SCALE : N/A
.XXX	SIZE : A4

REV. : H PAGE : 3

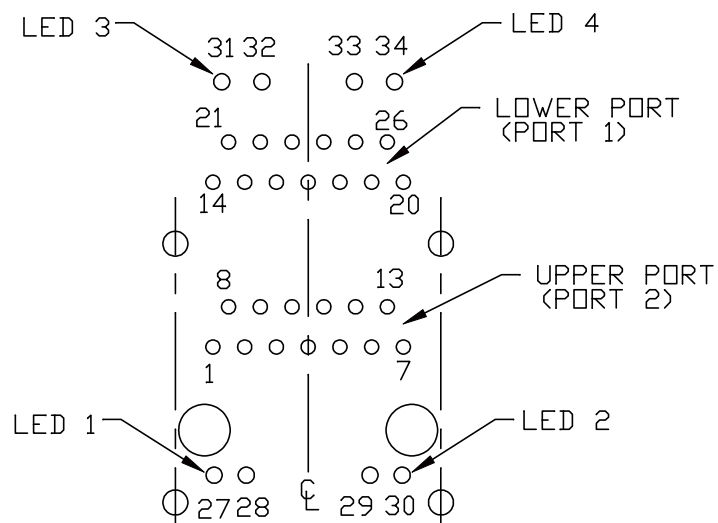


LED3 POLARITY			LED4 POLARITY		
PIN 31	PIN 32	COLOR	PIN 33	PIN 34	COLOR
-	+	GREEN	+	-	YELLOW
			-	+	GREEN

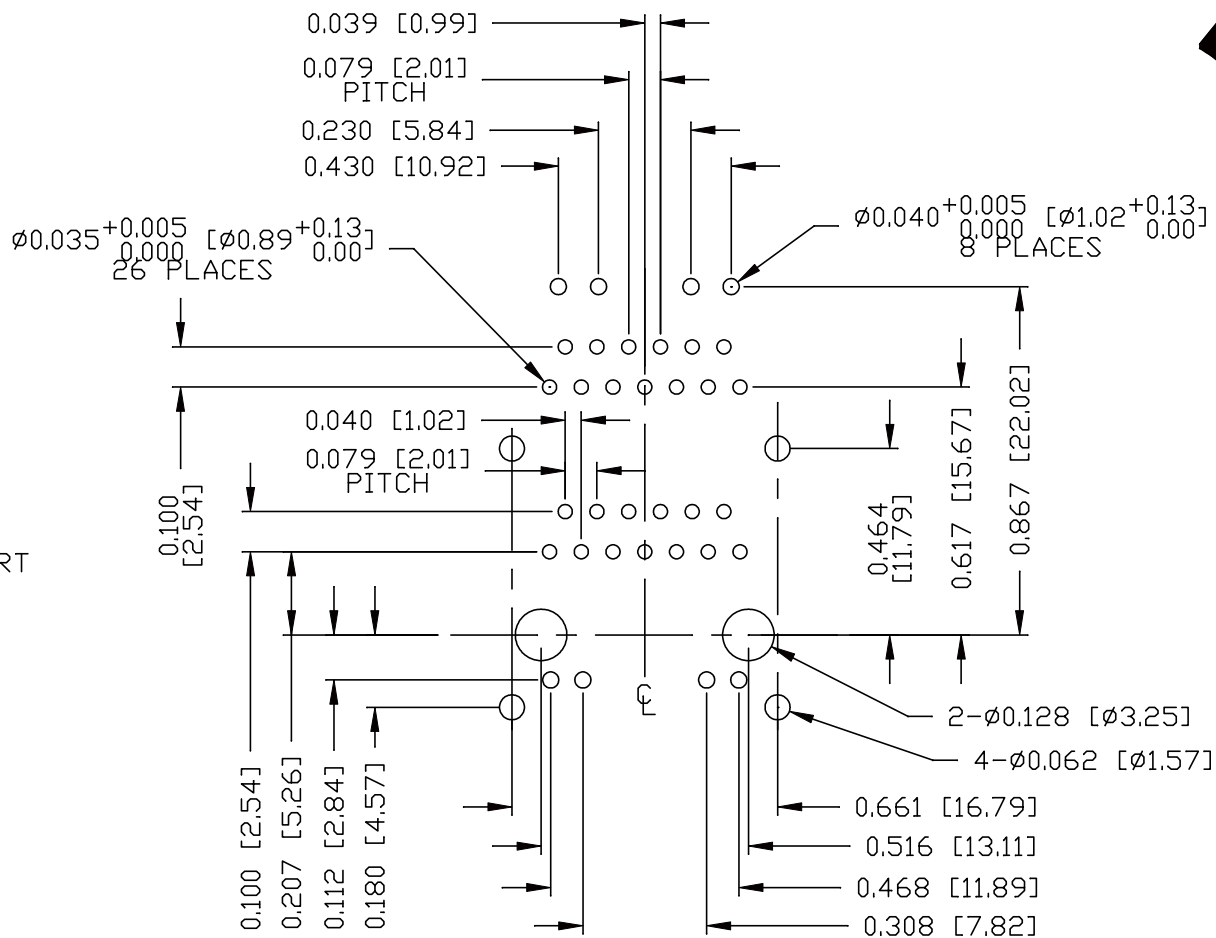




LED CONFIGURATION



PIN-OUT INFORMATION (COMPONENT SIDE VIEW)



SUGGESTED FOOTPRINT (COMPONENT SIDE VIEW)

ORIGINATED BY
ANTON LIAO
DATE 2017-02-25

DRAWN BY
LIU DONGJUN
DATE 2017-02-25

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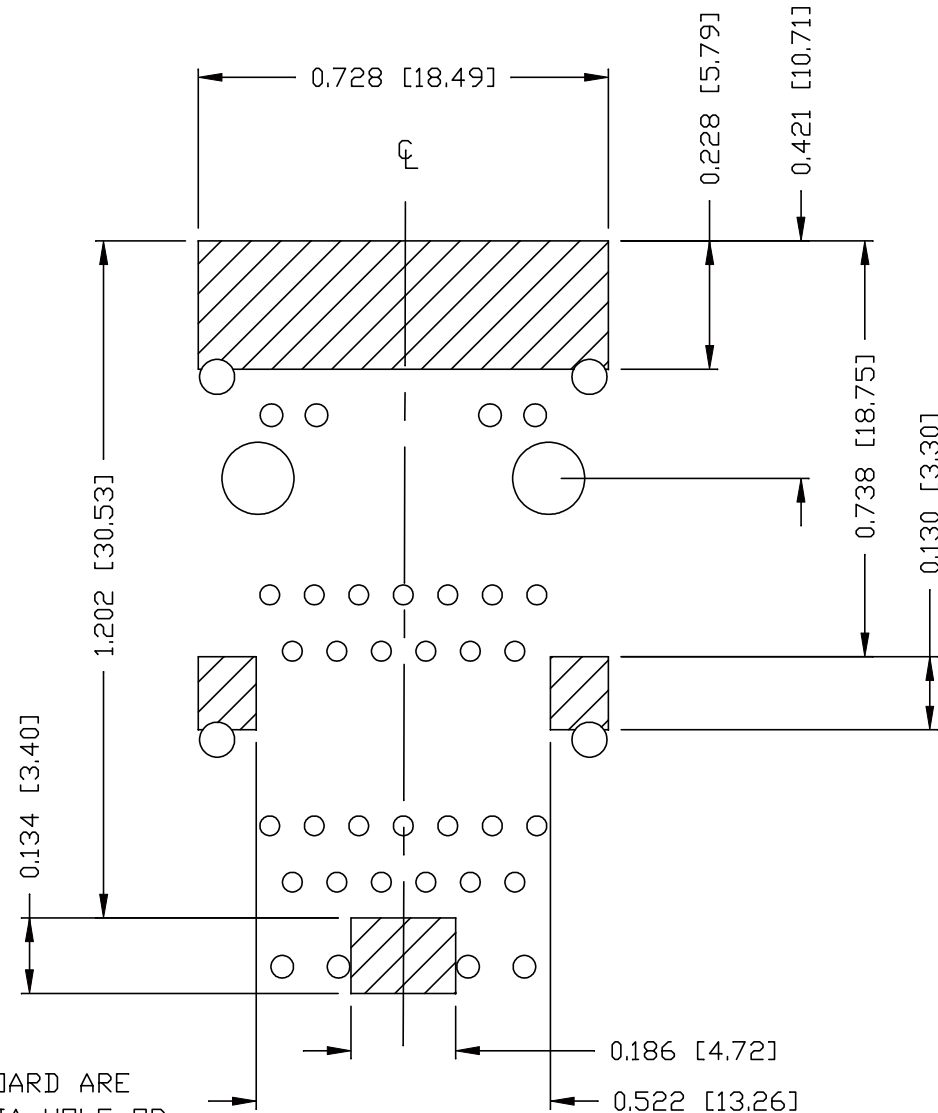
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.X		UNIT : INCH [mm]
.XX		SCALE : N/A
.XXX	± 0.004	SIZE : A4

REV. : H PAGE : 5



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RoHS



NOTES

THE SHADED AREA ON THE CUSTOMER BOARD ARE
RECOMMENDED TO BE CLEAR OFF ANY VIA HOLE OR
COMPONENT PAD.

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DATE 2017-02-25

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LIU DONGJUN
DATE 2017-02-25

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FILE NAME
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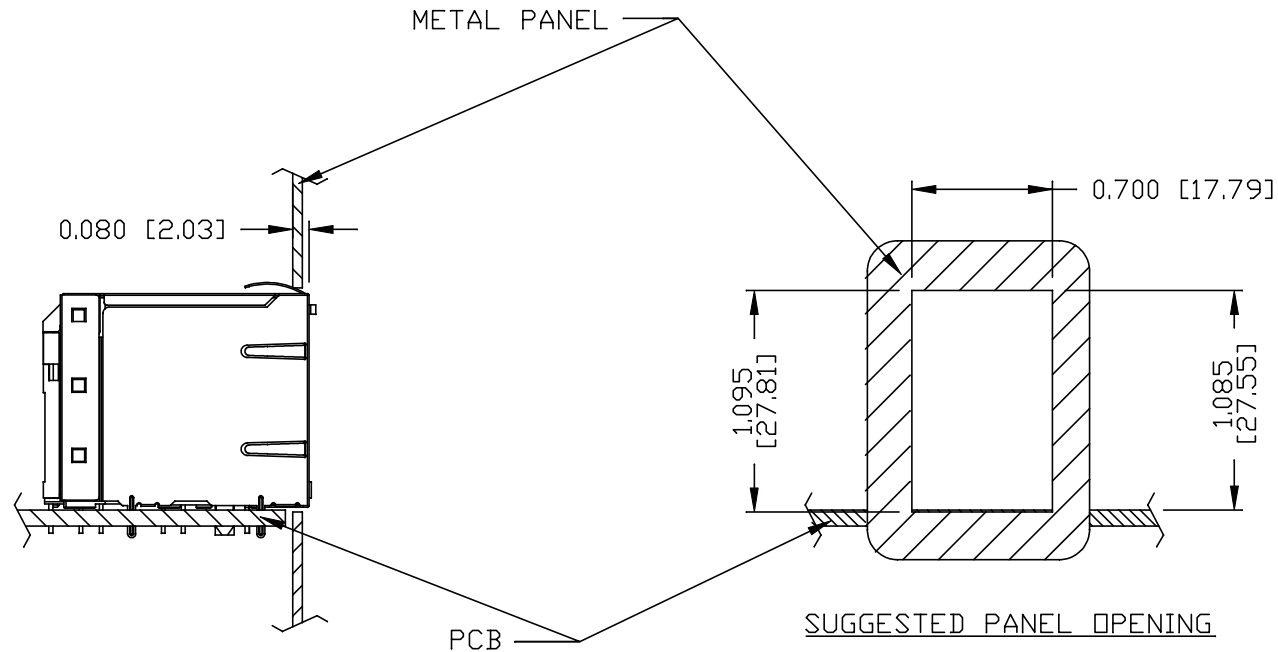
STANDARD DIM. [] METRIC DIM.
TOL. IN INCH AS REF.

.X
.XX
.XXX ±0.004

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

REV. : H PAGE : 6





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)

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ORIGINATED BY ANTON LIAO DATE 2017-02-25	TITLE 2X1 gigabit MagJack® (WITH LED) PATENTED	PART NO. / DRAWING NO. 0845-2R1T-E4	STANDARD DIM. TOL. IN INCH .X	[] METRIC DIM. AS REF.
		FILE NAME 0845-2R1T-E4_H.DWG	.XX ±0.004	UNIT : INCH [mm] SCALE : N/A SIZE : A4