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LED1 POLARITY			LED2 POLARITY		
PIN 21	PIN 22	COLOR	PIN 19	PIN 20	COLOR
+	−	GREEN	+	−	GREEN
			−	+	YELLOW

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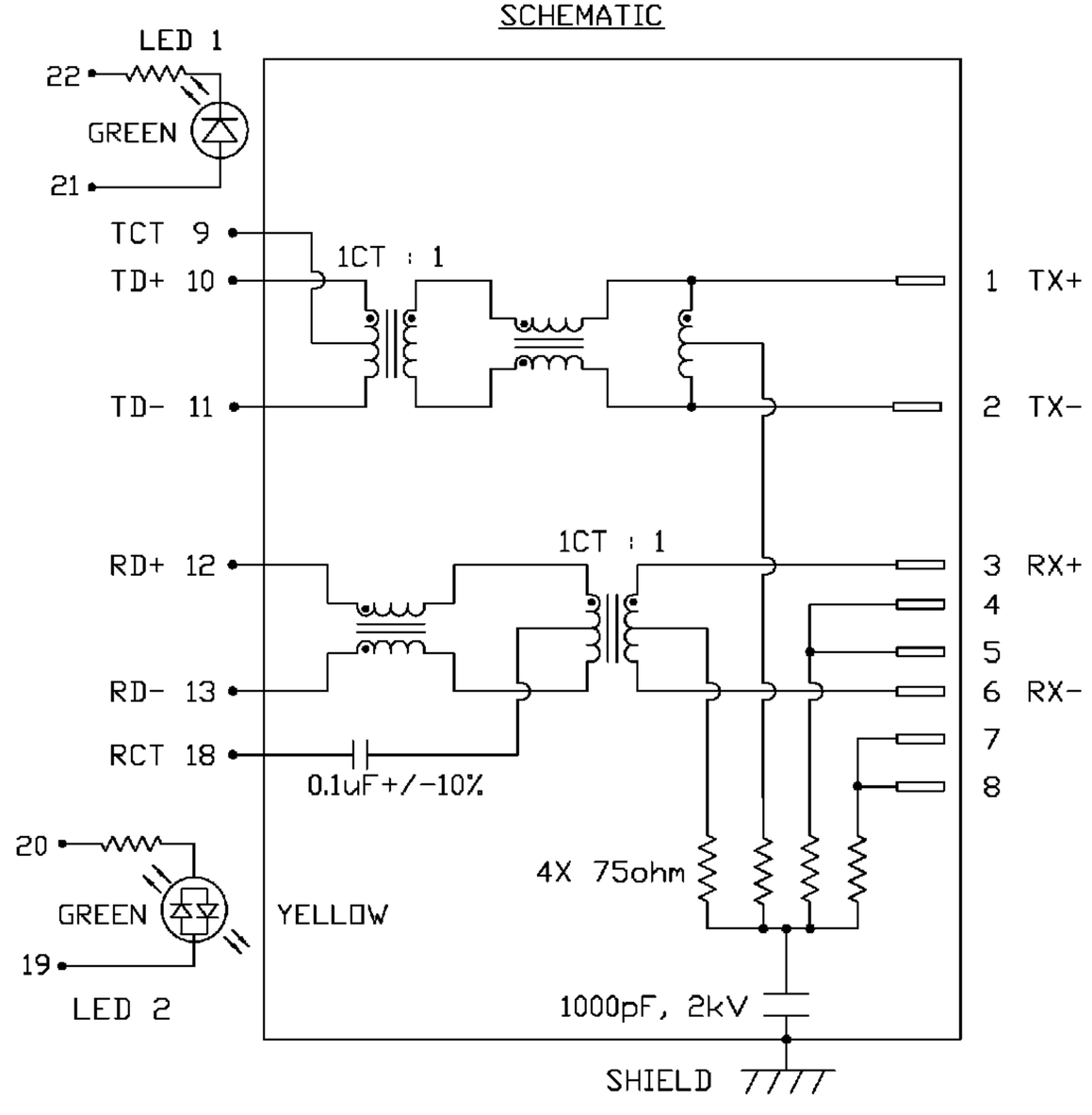
ELECTRICAL CHARACTERISTICS @ 25°C

TURNS RATIO	
TX	1CT : 1CT ±3%
RX	1CT : 1CT ±3%
OCL @ 100kHz,100mVRMS	
8mA DC BIAS	350uH MIN
INS. LOSS	
100KHz TO 100MHz	-1.0 dB MAX
RET. LOSS (MIN)	
1MHz-30MHz	-20 dB
30MHz-60MHz	-[19-20LOG(F/30MHz)] dB
60MHz-80MHz	-12 dB
CM TO CM REJ	
100kHz - 100MHz	-30 dB MIN
100MHz - 130MHz	-20 dB MIN
CM TO DM REJ	
100kHz - 100MHz	-35 dB Min
CROSS TALK	
1MHz - 65MHz	-35 dB MIN
65MHz - 100MHz	-30 dB MIN
HIPOT (Isolation Voltage):	1500 Vrms or 2250VDC
LEAKAGE INDUCTANCE	
PRIMARY W/ SECONDARY	0.3uH Max. @ 1MHz
INTERWINDING CAPACITANCE	
PER CHANNEL (PRI. TO SEC.)	30pF Max @ 1MHz
DC RESISTANCE	
(RJ1-RJ2)=(RJ3-RJ6)	1.2 ohms Max
LED 1	
VF (FORWARD VOLTAGE)	IF=20mA GREEN 2.2V TYP.
λ_D (DOMINANT WAVELENGTH)	IF=20mA GREEN 565nm TYP.
LED 2	
VF (FORWARD VOLTAGE)	IF=20mA GREEN 2.2V TYP.
	YELLOW 2.1V TYP.
λ_D (DOMINANT WAVELENGTH)	IF=20mA GREEN 565nm TYP.
	YELLOW 590nm TYP.
USB ELECTRICAL:	
INSULATION RESISTANCE:	1000 MEGA Ω (MIN)
CONTACT RESISTANCE:	25 MILLI Ω (MAX)
DIELECTRIC WITHSTANDING:	750 VAC

SCHEMATIC



ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REFERENCE	
CHUNG	04-12-06	MagJack® Combo (Staggered pin)	C893-1KX1-E1	.X	UNIT : INCH [mm]	REV. : B
DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A	SIZE : A4
DE	04-12-06		C8931KX1E1B.DWG	.XXX		PAGE : 2

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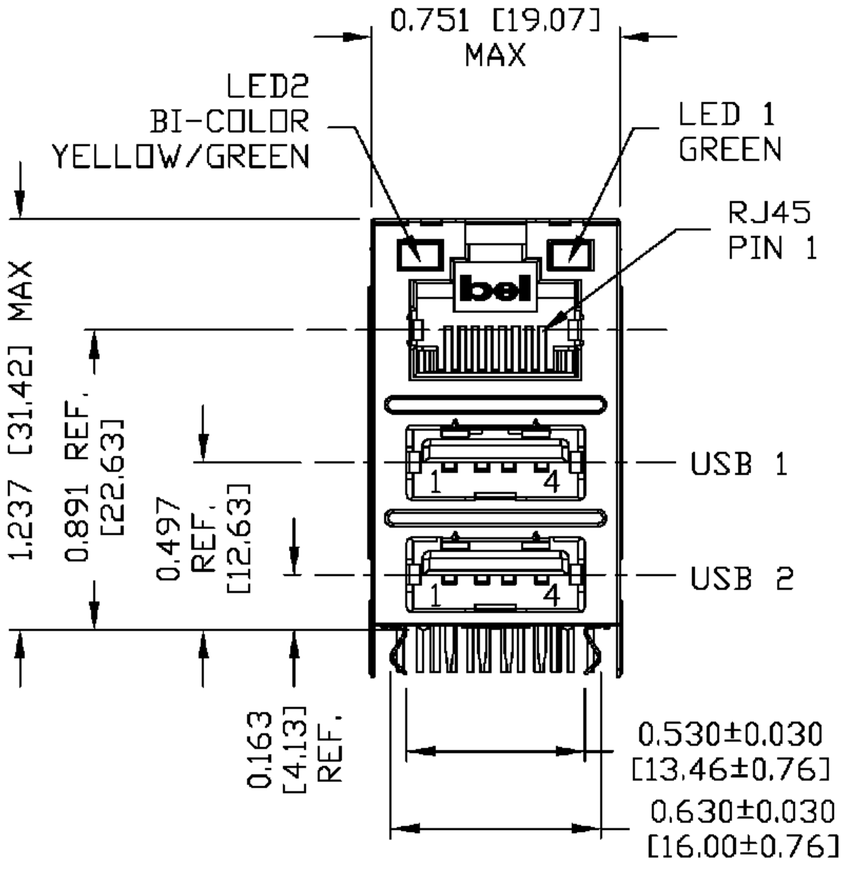
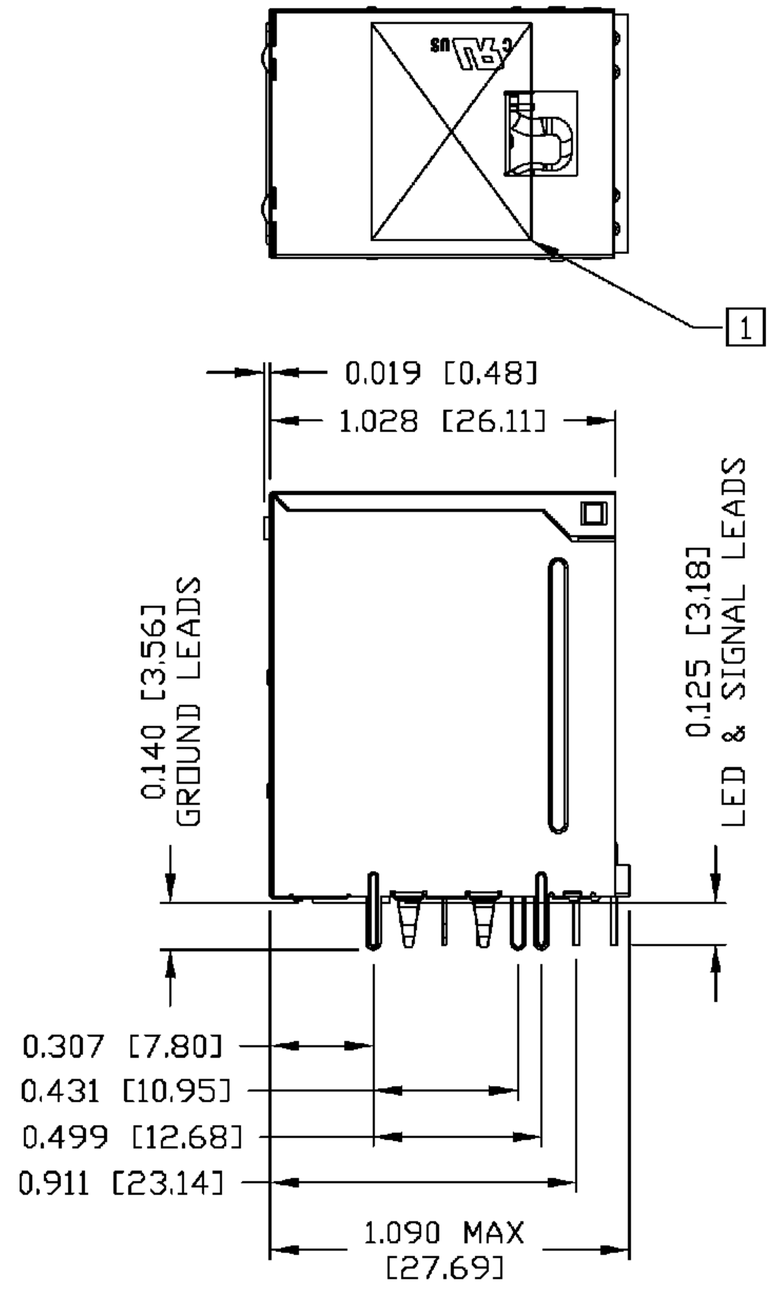
MECHANICAL SPECIFICATION





ORIGINATED BY: QIN	DATE: 04-12-06	TITLE: MagJack ® Combo (Staggered pin)	PART NO. / DRAWING NO.: C893-1KX1-E1	STANDARD DIM. TOL. IN INCH: .X, .XX, .XXX ±0.010	[ ] METRIC DIM. AS REFERENCE
DRAWN BY: TING	DATE: 04-12-06		FILE NAME: C8931KX1E1B.DWG		UNIT : INCH [mm] / REV. : B
					SCALE : N/A / SIZE : A4
					PAGE : 3

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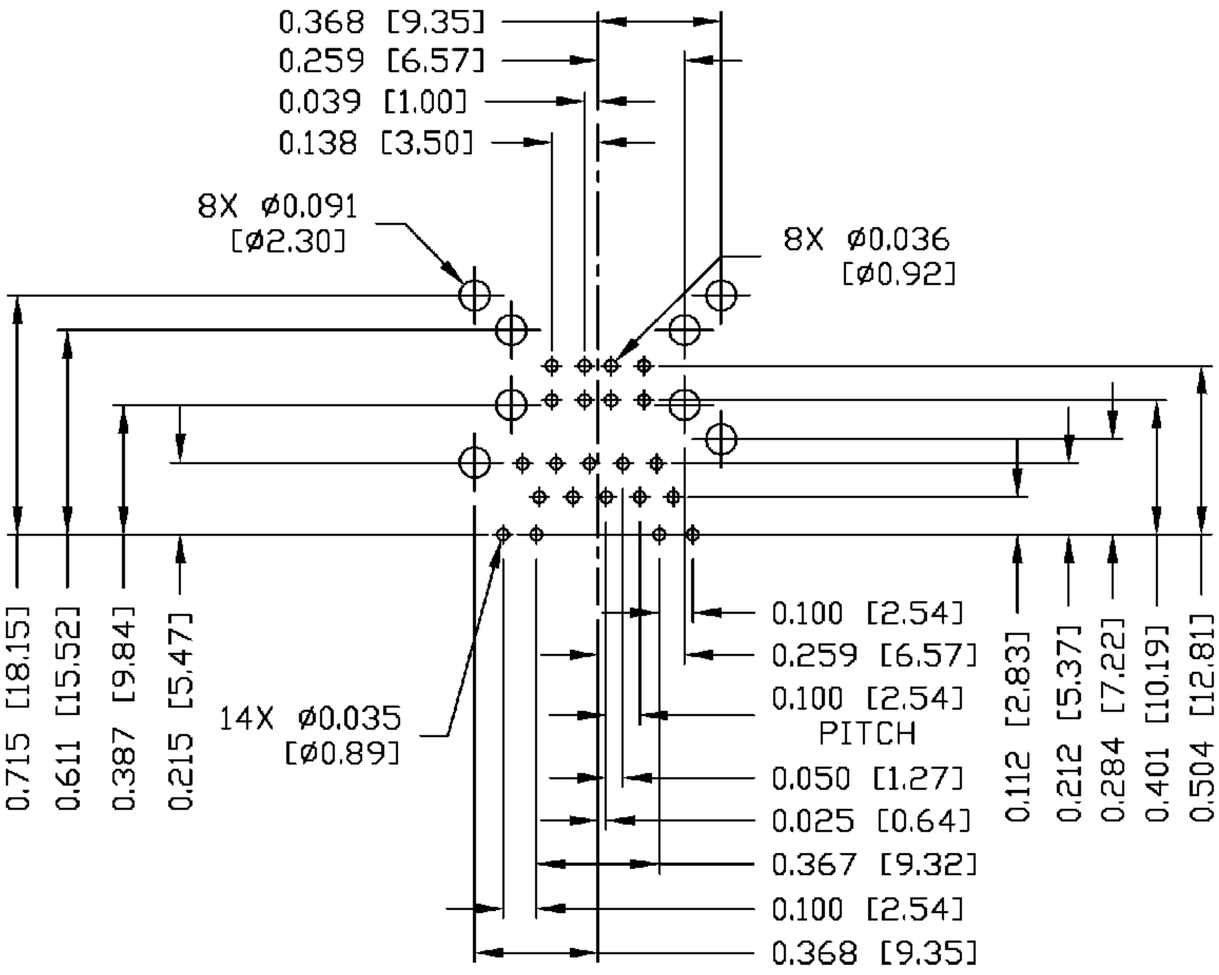
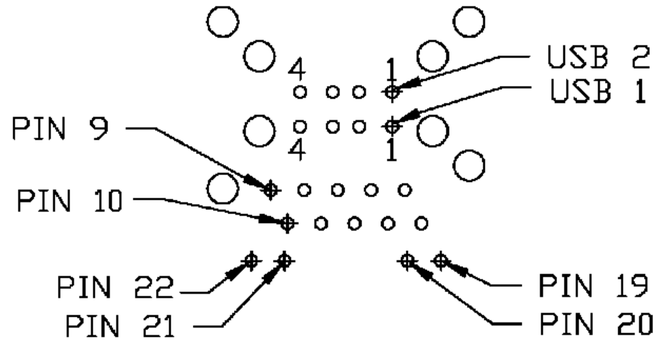
Recommended PCB footprint
Component Side





RJ45 MECHANICAL:

PLASTIC HOUSING:	THERMOPLASTIC PBT FLAMMABILITY RATING UL 94V-0
CONTACTS PLATING:	50 MICRO-INCH HARD GOLD PLATING
PINS:	TIN-COATED CP WIRE, DIA 0.018 INCH.
METAL SHIELD:	NICKEL PLATED ON COPPER ALLOY. (ALL GROUND LEADS ARE SOLDER DIPPED)

USB MECHANICAL:

MATING FORCE:	35 NEWTONS MAXIMUM
UNMATING FORCE:	10 NEWTONS MINIMUN
CONTACT:	PHOSPHOR BRONZE 30 MICRO-INCH GOLD PLATING ON CONTACT AREA AND TIN ON SOLDER TAIL.

1. MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, AND DATE CODE.

c UL us UL RECOGNIZED - FILE #E196366 AND E169987.

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

JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS.

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REFERENCE	
QIN	04-12-06	MagJack® Combo (Staggered pin)	C893-1KX1-E1	.X	UNIT : INCH [mm]	REV. : B
DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A	SIZE : A4
TING	04-12-06		C8931KX1E1B.DWG	.XXX ±0.004		PAGE : 4

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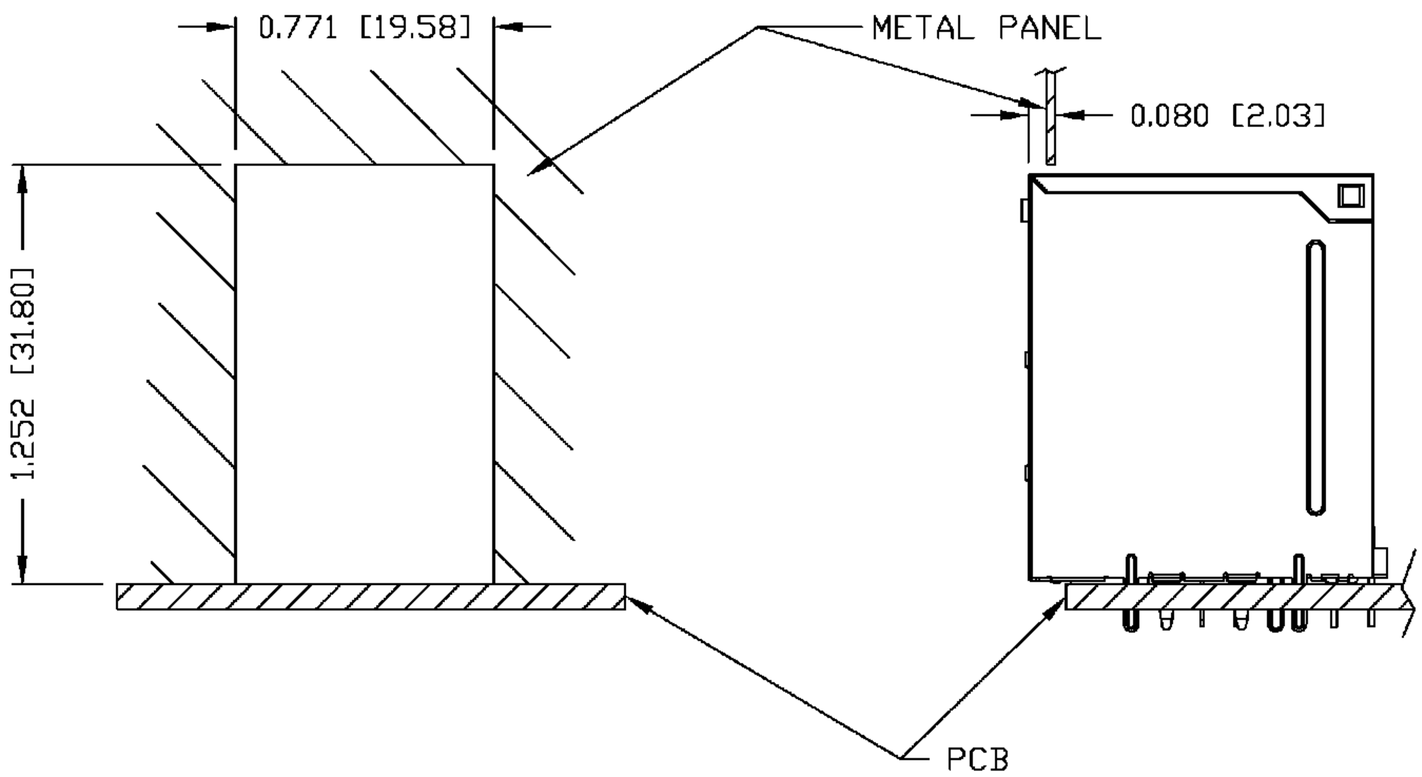
SUGGESTED PANEL OPENING



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-H3 (TOP)
0200-9999-H4 (BOTTOM)

PACKING QUANTITY : 35 PCS FINISHED GOODS PER TRAY
9 TRAYS (315 PCS FINISHED GOODS) PER CARTON BOX

NOTE : CARDBOARDS ARE PLACED BETWEEN LAYERS OF PACKING TRAY INSIDE CARTON BOX
(INCLUDE THE UPPERMOST AND LOWERMOST TRAY)

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH		[ ] METRIC DIM. AS REFERENCE	
QIN	04-12-06	MagJack ® Combo (Staggered pin)	C893-1KX1-E1			UNIT : INCH [mm]	REV. : B
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A	SIZE : A4
TING	04-12-06		C8931KX1E1B.DWG	.XX			
				.XXX	±0.004		PAGE : 5

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