



**THE DATASHEET OF
C893-1AX1-E1**



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ELECTRICAL CHARACTERISTICS @ 25°C

TURNS RATIO

TX
RX
1CT : 1CT ±3%
1CT : 1CT ±3%

DCL @ 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 YELLOW 2.1V TYP.

λD (DOMINANT WAVELENGTH)

IF=20mA YELLOW 590nm TYP.

LED 2

VF (FORWARD VOLTAGE)

IF=20mA GREEN 2.2V TYP.

λD (DOMINANT WAVELENGTH)

IF=20mA GREEN 565nm TYP.

USB ELECTRICAL:

INSULATION RESISTANCE:

1000 MEGA Ω (MIN)

CONTACT RESISTANCE:

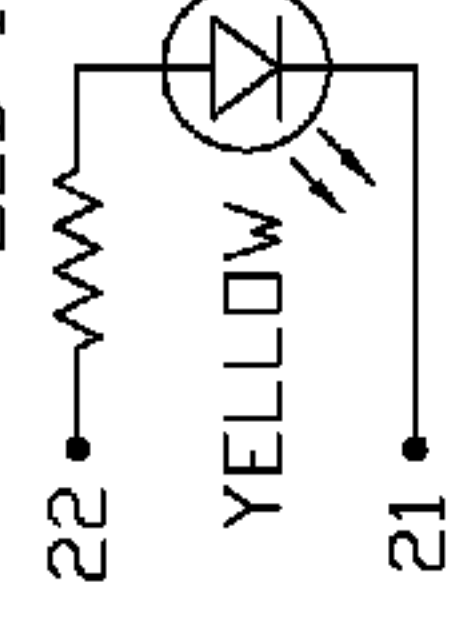
25 MILLI Ω (MAX)

DIELECTRIC WITHSTANDING:

750 VAC

LED2 POLARITY		LED1 POLARITY	
PIN 19	PIN 20	PIN 21	PIN 22
-	+	-	+
GREEN	GREEN	YELLOW	YELLOW

LED 1



21

22

YELLOW

LED 2

20

19

GREEN

TCT 9

TD+ 10

TD- 11

RD+ 12

RD- 13

RCT 18

0.1uF +/-10%

1CT : 1

1CT : 1

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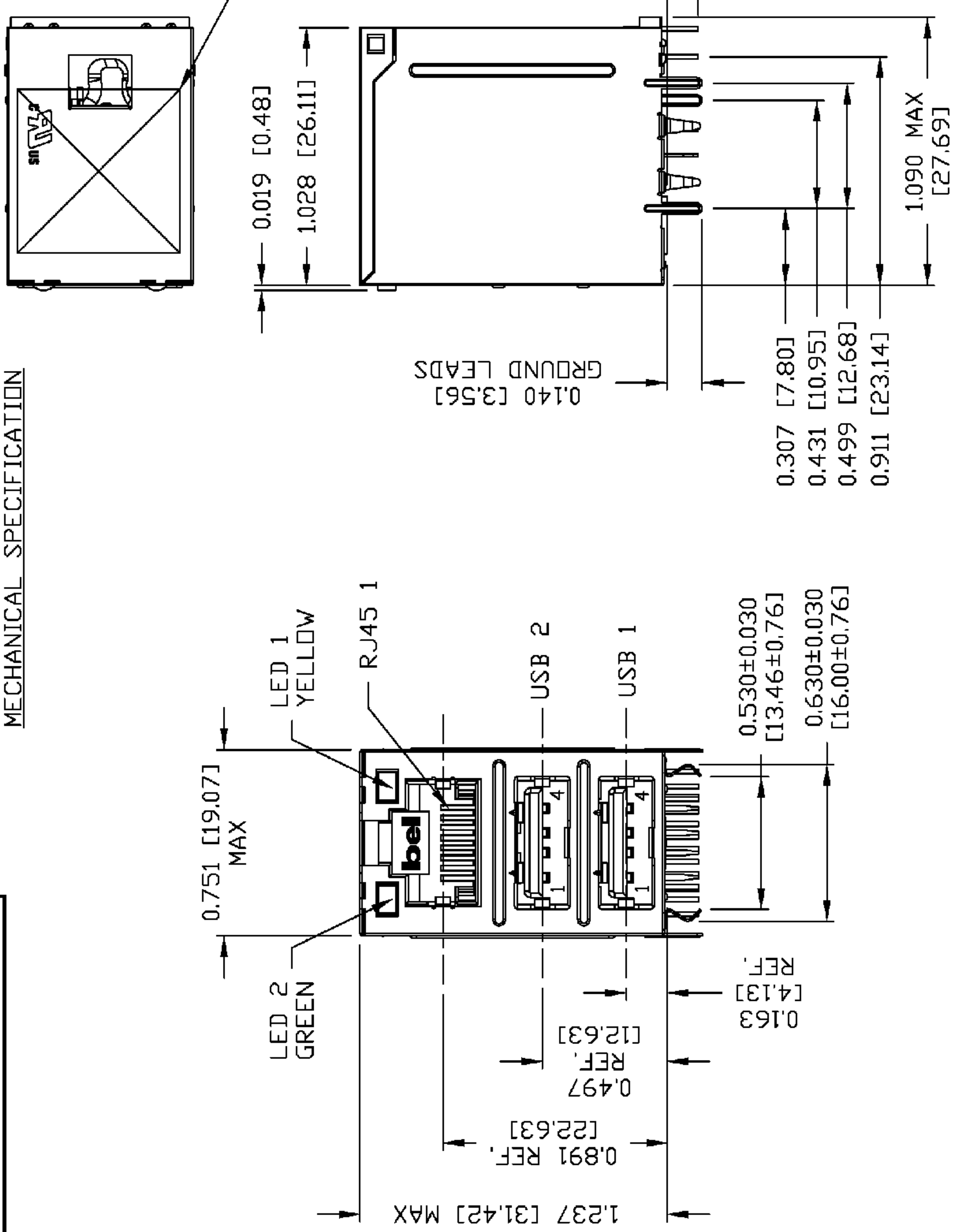
ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DI TOL. IN INC
CHUNG	04-17-06	MagJack® Combo (Staggered pin)	C893-1AX1-E1	.X
DRAWN BY	DATE		FILE NAME	.XX
DE	04-17-06		C8931AX1E1PE.DWG	.XXX

DC002(2)032305

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MECHANICAL SPECIFICATION



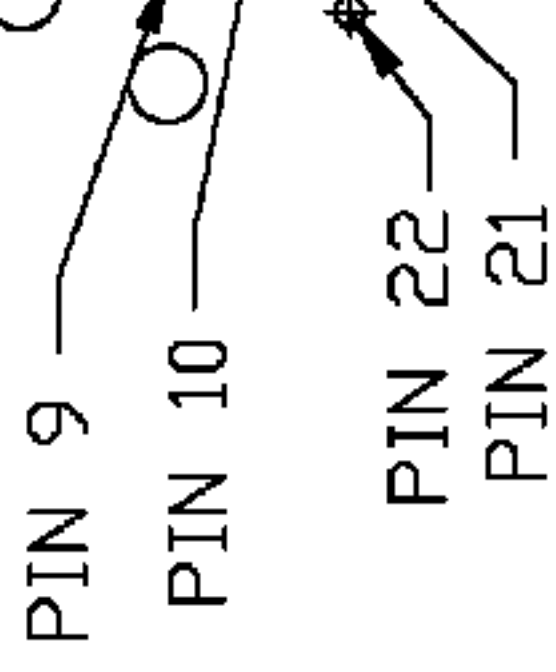
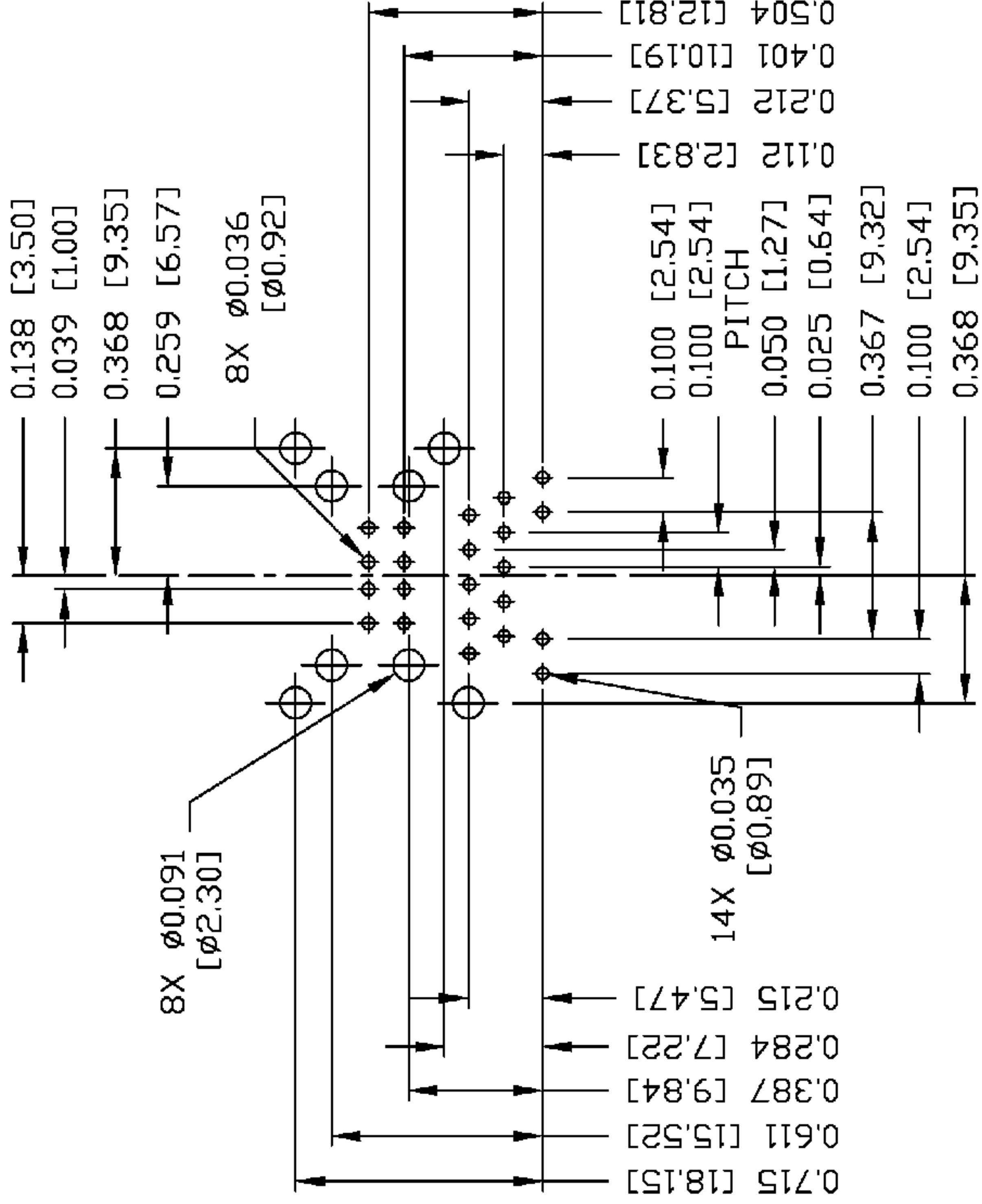
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DRAWN BY TING	DATE 04-17-06		FILE NAME C8931AX1E1PE.DWG	.XX
				.XXX ±0.0

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Recommended PCB footprint
Component Side



RJ45 MECHANICAL:

PLASTIC HOUSING: THERMO
FLAMM
CONTACTS PLATING: 50 MIC
PINS: TIN-C
METAL SHIELD: NICKEL
<ALL

USB MECHANICAL:
MATING FORCE: 35 NE
UNMATING FORCE: 10 NE
CONTACT: PHOSP
30 MIC
AREA

MARK PART WITH MFG LO
DATE CODE.

UL us UL RECOGNIZED - FI
ROHS COMPLIANCE, PER EU
JACK CAVITY CONFORMS TO

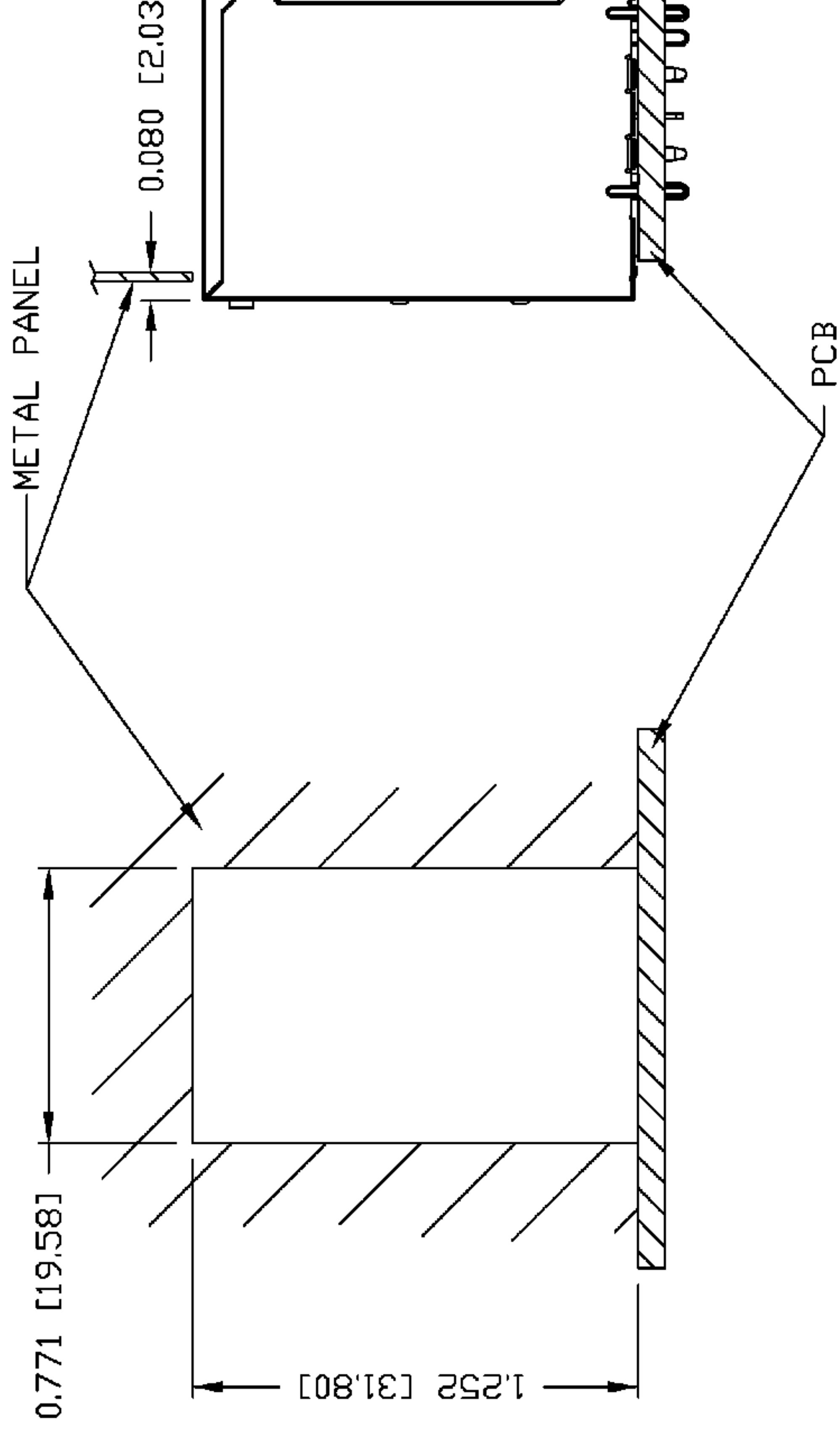
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SUGGESTED PANEL OPENING



NOTE:

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

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)

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