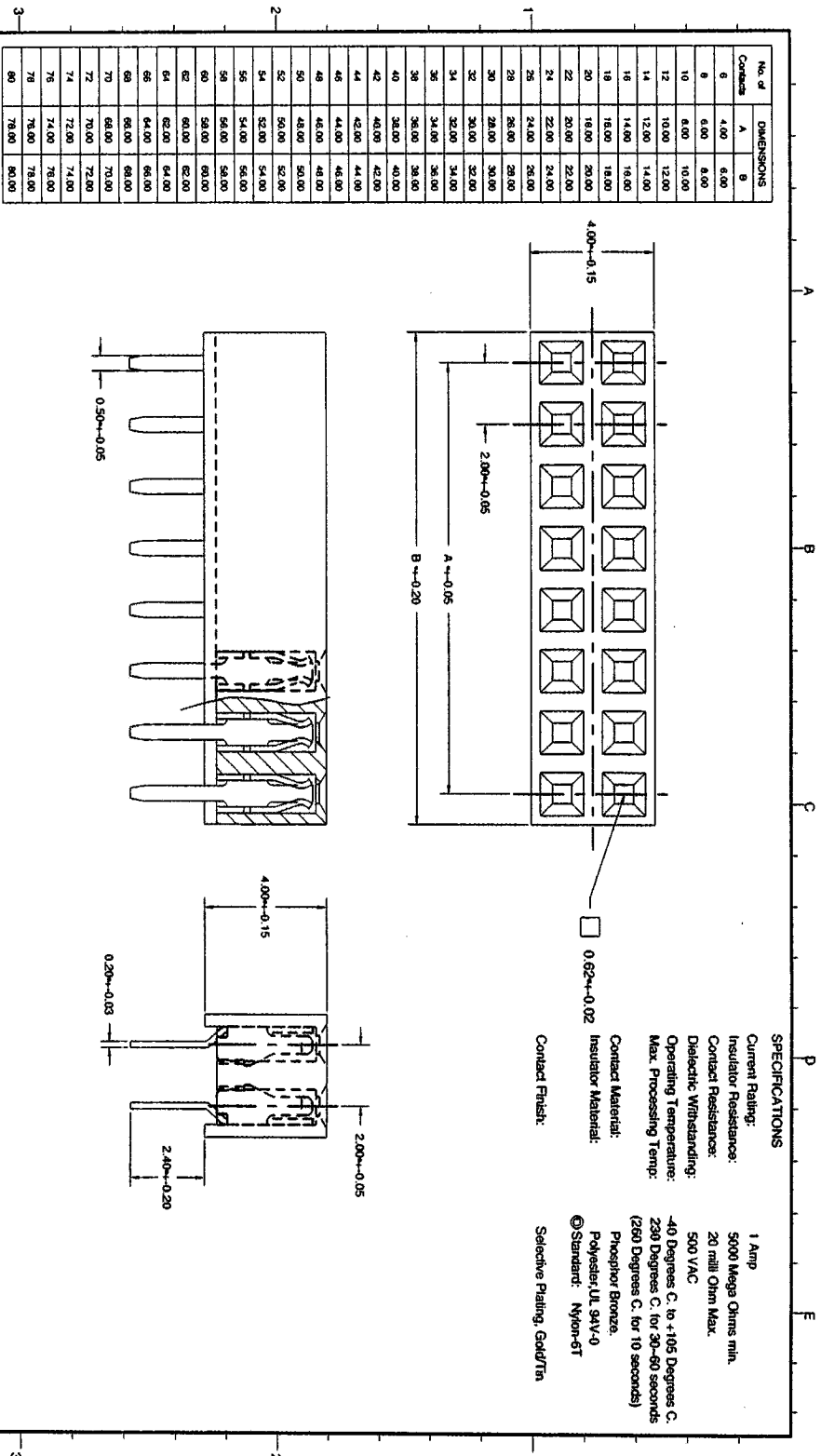


ON BOARD CONNECTOR USE 0 ON  
~~30202-A~~  
 30200-A



No. of Contacts	DIMENSIONS	
	A	B
6	4.00	6.00
8	6.00	8.00
10	8.00	10.00
12	10.00	12.00
14	12.00	14.00
16	14.00	16.00
18	16.00	18.00
20	18.00	20.00
22	20.00	22.00
24	22.00	24.00
26	24.00	26.00
28	26.00	28.00
30	28.00	30.00
32	30.00	32.00
34	32.00	34.00
36	34.00	36.00
38	36.00	38.00
40	38.00	40.00
42	40.00	42.00
44	42.00	44.00
46	44.00	46.00
48	46.00	48.00
50	48.00	50.00
52	50.00	52.00
54	52.00	54.00
56	54.00	56.00
58	56.00	58.00
60	58.00	60.00
62	60.00	62.00
64	62.00	64.00
66	64.00	66.00
68	66.00	68.00
70	68.00	70.00
72	70.00	72.00
74	72.00	74.00
76	74.00	76.00
78	76.00	78.00
80	78.00	80.00

**SPECIFICATIONS**  
 Current Rating: 1 Amp  
 Insulator Resistance: 5000 Mega Ohms min.  
 Contact Resistance: 20 mill Ohm Max.  
 Dielectric Withstanding: 500 VAC  
 Operating Temperature: -40 Degrees C. to +105 Degrees C.  
 Max. Processing Temp: 230 Degrees C. for 10 seconds  
 Contact Material: Phosphor Bronze  
 Insulator Material: Polyester, UL 94V-0  
 ©Standard: Nylon-6T  
 Selective Plating: Gold/Tm

**SULLINS**  
 801 E. Mission Rd.  
 San Marcos, CA 92069

GENERAL TOLERANCE		SCALE	DRAWN	CHECK	DATE	DWG. NO.	TITLE	REV.
XX ±	0.05	6:1				T0023		1.0
X ±	0.10	MM				PPWVHX2ACFN		1/2
X ±	0.20	UNIT						
XX ±	0.05	SIZE	A4	APPROVE	DATE			

WI-0503

509pc  
 509pc  
 PPWVHX2ACFN

# Eutron Component Listing, 20200-A

**Power Supply model 20200-A** (P.S. type X18)

(page 1/2)

March 2001

**a) Printed Circuit Board:**

Eutron Printed Circuit Board # 2020-0 (part of the panel # 24001P)	
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**b) SMT Integrated Circuits:**

Description	Size	Count	Position
IC, SMT Optoisolator # PS2561L-1 (NEC)	SO-04	01	U3
IC, SMT Dual Darlington Optoisolator # PS2702-2 (NEC)	SO-08	01	U5
IC, TLC431CD -Voltage Regulator (Texas Instruments)	SO-08	01	U4
IC, DF04S, Bridge Rectifier 400V-1Amp. (General Semiconduct.)	SO-04	01	D1

**c) SMT Diodes:**

Part Number / Type	Size	Count	Position
DL4007 - Rectifier Diode (Microsemi, Diodes, etc.)	SMT-Melf	01	D3
10BQ100TR - Schottky Rect. 100V (International Rectifier)	SMA	03	D4, D6, D7
DL148 - SW Rectifier Diode (Microsemi, etc.)	SMT-Melf	02	D8, D9

**d) SMT Multilayer Ceramic Chip Capacitor Size 0805:**

Capacitance	Type	Size	VDC	Count	Position
0.1 uF	X7R	0805	50V	01	C4

**e) Epoxy Boxed Polyester Film Capacitor:**

Capacitance	Type	Tolerance	VDC	Pitch	Count	Position
0.1 uF	Boxed Film	5%	63Vdc	5.08 mm	01	C9

**f) Epoxy Boxed Polypropylene Film (class X2 - UL Approval) Capacitor:**

Capacitance	Type	Tolerance	VAC	Pitch	Count	Position
0.1 uF	Boxed Film	20%	275 Vac	10 mm	01	C1

Manuf.: BC Components part number: MKP338-20104

g) Ceramic Disc Capacitors:

Capacitance	Volts / Type	Count	Position
680 pF	400 VAC, Class Y2 (Panasonic ECK-ATS681MB)	01	C10
2200 pF	400 VAC, Class Y2 (Panasonic ECK-ATS222ME)	01	C2

h) Radial Lead Aluminum Electrolytic Capacitors:

Capacitance	Volts DC	Diameter max.	Count	Position
47 uF	25 Vdc	5 mm	01	C3
4.7 uF	450 Vdc	12 mm	01	C5
100 uF	25 Vdc	5 mm	01	C7
100 uF	16 Vdc	6.3 mm	01	C8
470 uF	10 Vdc	8 mm	01	C11

i) SMT Thick Film Chip Resistor, size 0805, 5% Tolerance:

Value	Tolerance	Size	Count	Position
15R	5%	0805	01	R6
270R	5%	0805	03	R7, R9, R10
820R	5%	0805	01	R8
10K	5%	0805	02	R11, R12
1K2	5%	0805	02	R13, R14

j) Other Components:

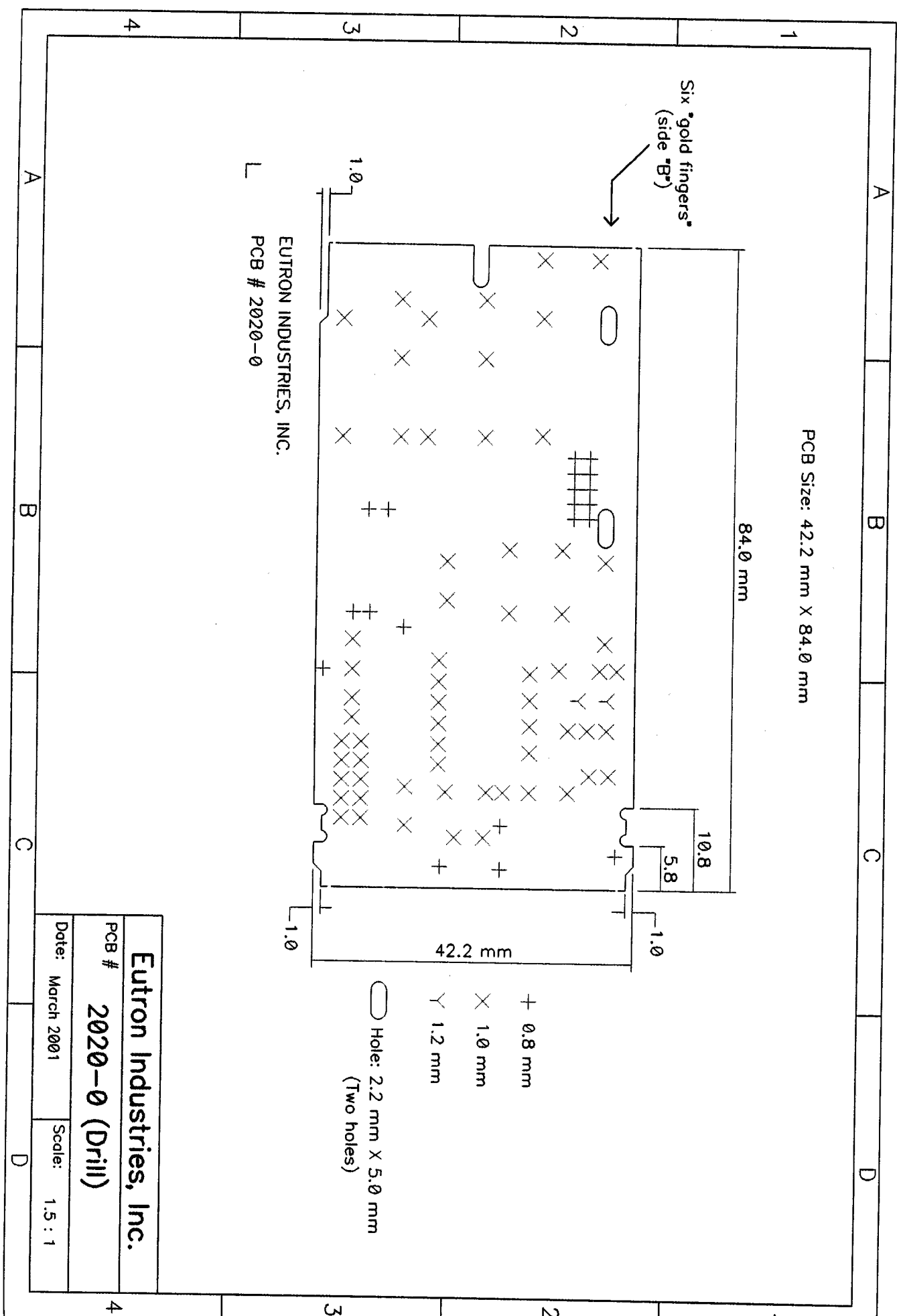
Type / Description	Count	Position
SMT BeadCore (Fair-Rite Products # 2743019447)	02	B1, B2
Resistor 100Ω X 2W (BC Components # 5083NW100R0J12AFX)	01	R1
Diode Zener 1N5388B (axial lead) 200 Vdc, 5W (Microsemi, Motorola)	01	D2
TOP221Y, Three-terminal PWM Switch (Power Integrations, Inc.)	01	U2
Radial Lead Fixed Inductor 3.3uH, 5Amp. (TOKO # 622LY-3R3M)	01	L1
Eutron Line Filter # T9503 (Eutron)	01	T1
Eutron Transformer # TR1999 (Transmore, Others...)	01	T2
Connector 2 X 5, Pitch: 2mm (3M # 150210-6002-TB) Sullins	01	P1
2" Round Conductor Flat Cable, Pitch: 2.54 mm (Molex # WM05-02)	02	P2
Relay Omron # G6B-1114-DC12	02	RL1, RL2

150  
uF  
50V  
FUSE

The End







PCB Size: 42.2 mm X 84.0 mm

84.0 mm

42.2 mm

10.8  
5.8

EUTRON INDUSTRIES, INC.  
PCB # 2020-0

Six "gold fingers"  
(side "B")

- + 0.8 mm
- X 1.0 mm
- Y 1.2 mm
- Hole: 2.2 mm X 5.0 mm  
(Two holes)

**Eutron Industries, Inc.**  
PCB # **2020-0 (Drill)**

Date: March 2001      Scale: 1.5 : 1

# Eutron Component Listing, 30202-A

## Power Supply model 30202-A

(page 1/2)

March 2001

### a) Printed Circuit Board

Eutron Printed Circuit Board # 3020-2 (part of the panel # 35001P)

### b) SMT Integrated Circuits:

Description	Size	Count	Position
IC, SMT Optoisolator # PS2701-1 (NEC)	SO-04	01	U1
IC, SMT Optoisolator # PS2561L-1 (NEC)	SO-04	01	U3
IC, TLC431CD -Voltage Regulator (Texas Instruments)	SO-08	01	U4
IC, DF04S, Bridge Rectifier 400V-1Amp. (General Semiconduct.)	SO-04	01	D1

### c) SMT Diodes:

Part Number / Type	Size	Count	Position
DL4007 - Rectifier Diode (Microsemi, Diodes, etc.)	SMT-Melf	01	D3
10BQ100TR - Schottky Rect. 100V (International Rectifier)	SMA	03	D4, D6, D7
DL4148 - SW Rectifier Diode (Microsemi, etc.)	SMT-Melf	01	D5

### d) SMT Transistor, size SOT-23:

Description	Size	Count	Position
Transistor PNP, MMBT4403 (Diodes, Inc)	SOT-23	01	Q1

### e) SMT Multilayer Ceramic Chip Capacitor Size 0805:

Capacitance	Type	Size	VDC	Count	Position
0.1 uF	X7R	0805	50V	01	C4

### f) Epoxy Boxed Polyester Film Capacitor:

Capacitance	Type	Tolerance	VDC	Pitch	Count	Position
0.1 uF	Boxed Film	5%	63Vdc	5.08 mm	01	C9

### g) Epoxy Boxed Polypropylene Film (class X2 - UL Approval) Capacitor:

Capacitance	Type	Tolerance	VAC	Pitch	Count	Position
0.1 uF	Boxed Film	20%	275 Vac	10 mm	01	C1

Manuf.: BC Components part number: MKP338-20104 (type X2).

h) Ceramic Disc Capacitors:

Capacitance	Volts / Type	Count	Position
2200 pF	400 VAC, Class Y2 (Panasonic ECK-ATS222ME)	01	C2
680 pF	400 VAC, Class Y2 (Panasonic ECK-ATS681MB)	01	C10

i) Radial Lead Aluminum Electrolytic Capacitors:

Capacitance	Volts DC	Diameter max.	Count	Position
47 uF	25 Vdc	5 mm	01	C3
4.7 uF	450 Vdc	12 mm	01	C5
100 uF	25 Vdc	5 mm	01	C7
100 uF	16 Vdc	6.3 mm	02	C6, C8
470 uF	10 Vdc	8 mm	01	C11

j) SMT Thick Film Chip Resistor, size 0805, 5% Tolerance:

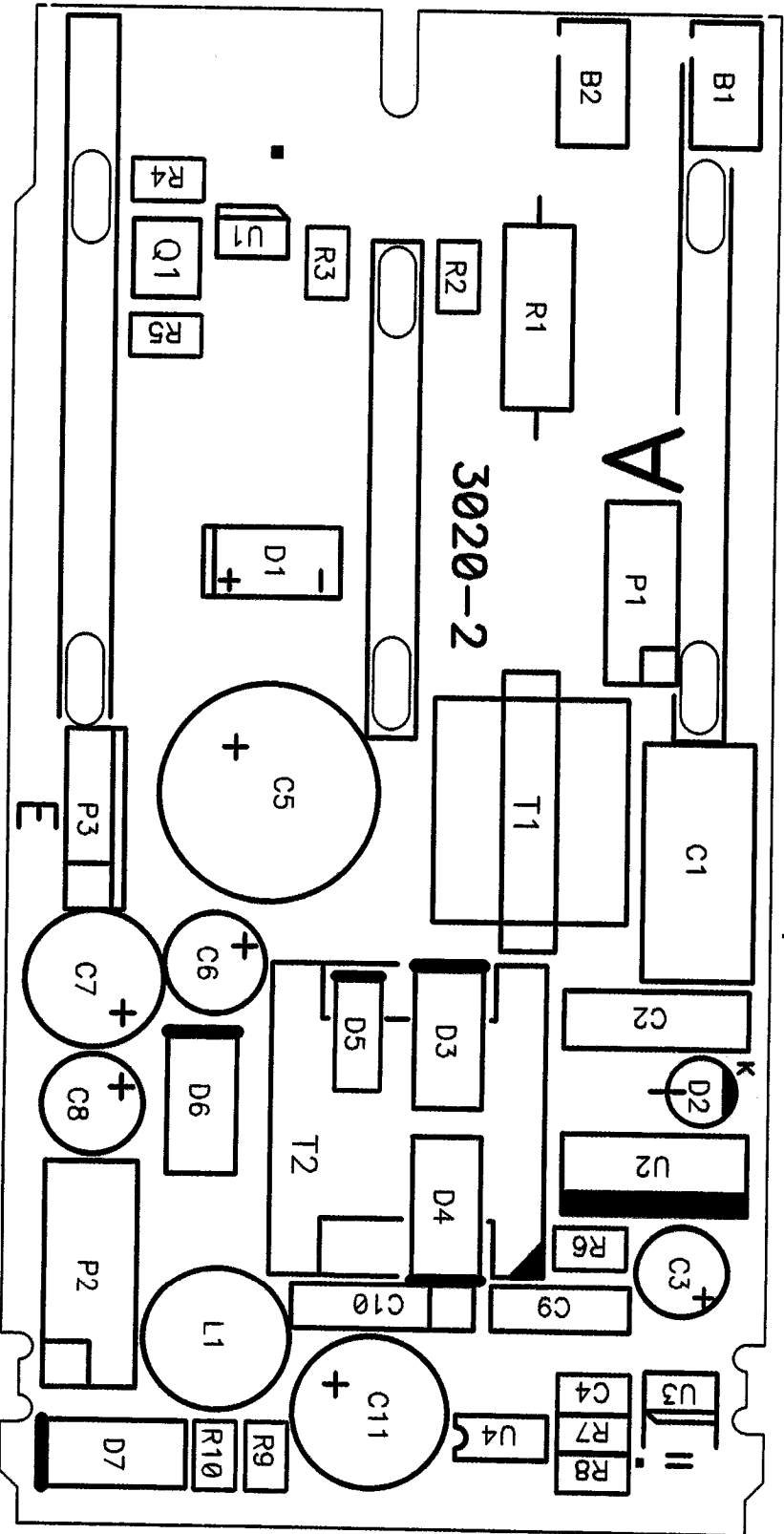
Value	Tolerance	Size	Count	Position
10K	5%	0805	01	R2
3K3	5%	0805	01	R3
4K7	5%	0805	01	R4
100R	5%	0805	01	R5
15R	5%	0805	01	R6
270R	5%	0805	03	R7, R9, R10
820R	5%	0805	01	R8

k) Other Components:

Position	Count	Type / Description
B1, B2	02	SMT BeadCore (Fair-Rite Products # 2743019447)
R1	01	Resistor 100Ω X 2W (BC Components # 5083NW100R0J12AFX)
D2	01	Diode Zener 1N5388B (axial lead) 200 Vdc, 5W (Microsemi, Motorola)
U2	01	TOP221Y, Three-terminal PWM Switch (Power Integrations, Inc.)
L1	01	Radial Lead Fixed Inductor 3.3uH, 5Amp. (TOKO # 622LY-3R3M)
T1	01	Eutron Line Filter # T9503 (Transmore, Others...)
T2	01	Eutron Transformer # TR1999 (Eutron)
P1	01	Connector 2 X 5, Pitch: 2mm (3M # 150210-6002-TB, or Sullins)
P2	02	2" Round Conductor Flat Cable, Pitch: 2.54 mm (Molex # WM05-02)

50  
= MICROSEMI  
+ 5 A  
FUSE →

(PCB # 3020-2)



Power Supply model # 30202-A  
 Overlay for Production  
 (Part of the panel # 35001P)

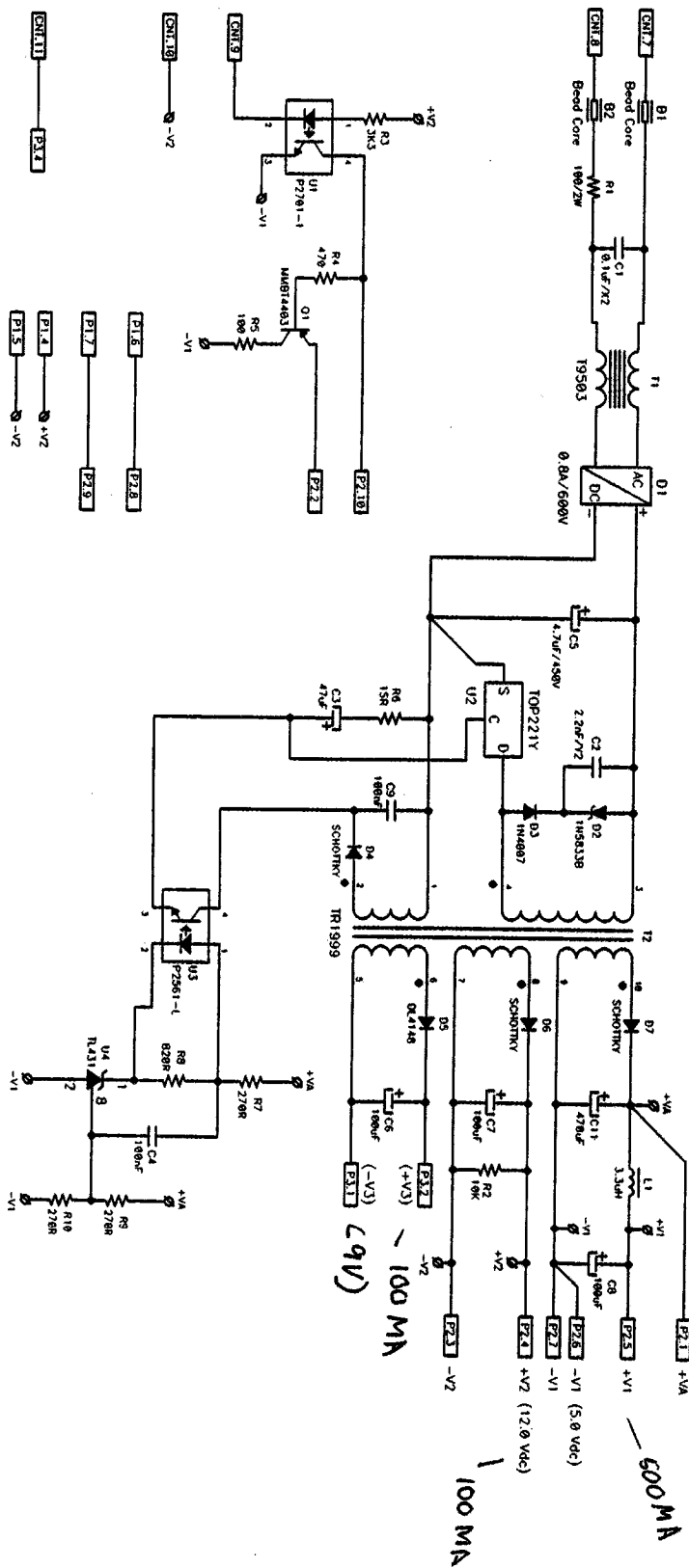
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Eutron Industries, Inc.

PCB # Production

Date: March 2001

Scale:



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**Eutron Industries, Inc.**

**3020-2 (Power Supply)**

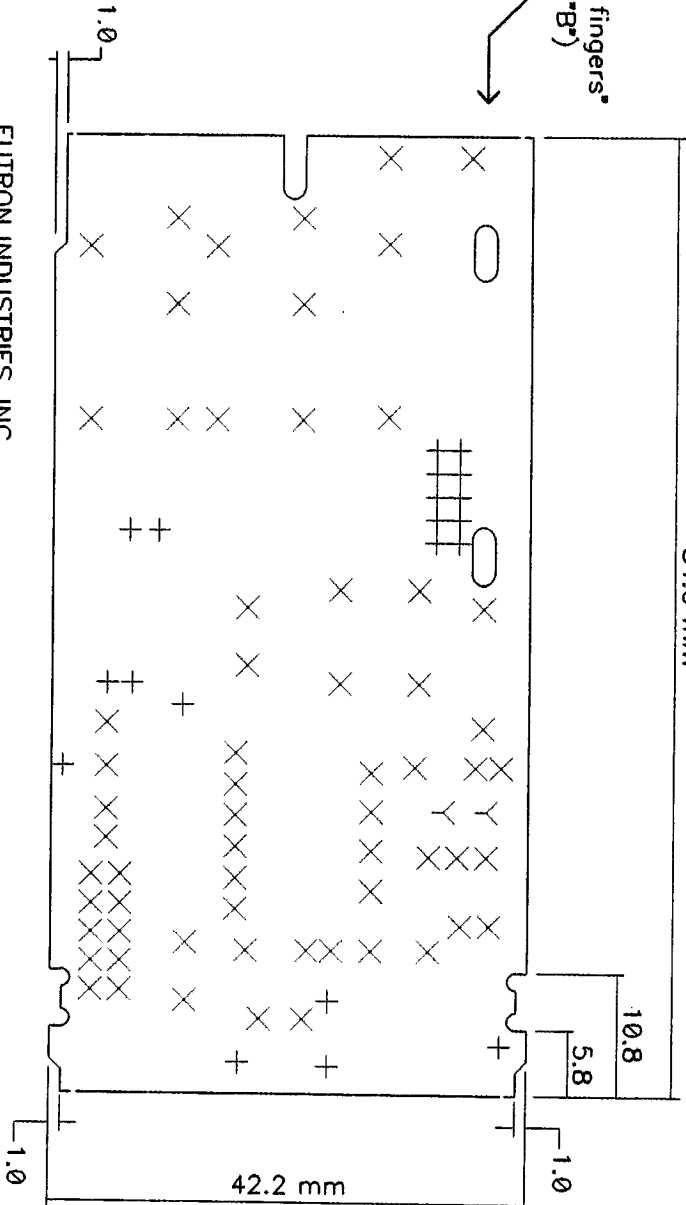
Date: March 2001

Approvals:

PCB Size: 42.2 mm X 84.0 mm

84.0 mm

Six "gold fingers"  
(side "B")



EUTRON INDUSTRIES, INC.  
PCB # ~~2076-0~~

- + 0.8 mm
- X 1.0 mm
- Y 1.2 mm

○ Hole: 2.2 mm X 5.0 mm  
(Two holes)

Eutron Industries, Inc.

PCB # ~~2076-0~~ (Drill)

Date: March 2001

Scale: 1.5 : 1