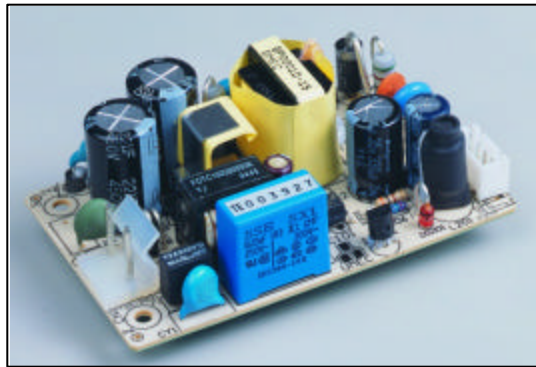


UP0201D SERIES

Green Product
RoHS

20 Watt AC/DC Open Frame

- ◆ Universal Input 90 to 264 VAC or 85-285 VDC
- ◆ EMI Meets FCC/CISPR 22 Class B
- ◆ Continuous Short Circuit Protection
- ◆ MTBF 500Khrs
- ◆ RoHS Compliant



SPECIFICATIONS

All specifications are typical at nominal line, full load and 25°C unless otherwise noted.

INPUT SPECIFICATIONS

Input Voltage Range90-264VAC or 85-285VDC
Input Frequency 47-63 Hz
Inrush Current 30A max.(Cold Start)

GENERAL SPECIFICATIONS

Hold-up Time 10mS typ.
Leakage Current 3mA max.
Short Circuit Protection Continuous
Continuous Output Power 20W max.
Hi-pot Isolation: Input / Output 4242 VDC

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range 0°C to 70°C
Derating 50°C to 70°C 2%/°C
Temperature Coefficient ±0.02%/°C
Storage Temperature Range -40°C to +85°C
Humidity, Non-Condensing 0 to 95% RH
Cooling Free- Air Convection
EMI Meets FCC/CISPR 22 Class B Specification



UMEC International Corporation

2570 West 237th Street, Suite B
Torrance, California 90505
Tel: 310-326-7072 Fax: 310-326-7058

OUTPUT SPECIFICATIONS

Model Number	Output Voltage (Volts)	OVP	Output Current (Amps)		Max Power (Watt)	Efficiency (typ.)	Ripple ¹ P-P (mV)	Total Regulation ²	Connector Pins (N)
			Min.	Rated					
UP0201D-03	3.3	✓	0	4.50	15	70%	50	±4%	6
UP0201D-05	5	✓	0	3.50	18	75%	50	±4%	6
UP0201D-09	9	✓	0	2.00	18	77%	90	±4%	4
UP0201D-12	12	✓	0	1.65	20	78%	120	±4%	4
UP0201D-15	15	✓	0	1.35	20	80%	150	±4%	4
UP0201D-18	18	✓	0	1.15	20	80%	180	±4%	4
UP0201D-24	24	✓	0	0.85	20	80%	240	±4%	4
UP0201D-48	48	✓	0	0.45	22	82%	480	±4%	4

NOTES:

1. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to the output connector. Peak to peak and RMS metering equipment shall have a 20 MHz response with probes and cables maintaining frequency response from 200 Hz to 100MHz bandwidth. Output ripple and spikes are measured directly at the output terminals of the power supply without the use of the probe ground clip.

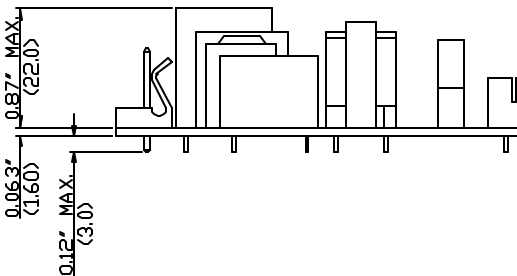
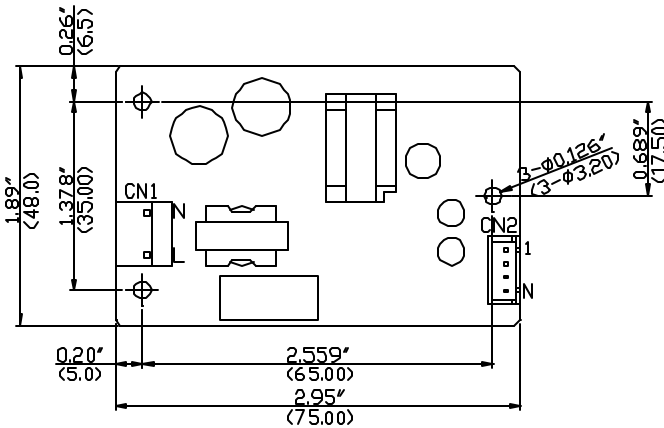
When output current is changed from full load to light load, PWM IC may enter the burst mode to improve efficiency at light load, therefore the spec. of the ripple P.P. will be double during burst mode.

2. Total regulation is defined as the static output regulation at 25°C, including initial tolerance, line voltage and load current within stated limits. ±5% total regulation for UP0201D-XXC2 due to cable loss.

PHYSICAL SPECIFICATIONS

Weight: 75g

UP0201D-XX



CN1 input connector Molex 09-65-2038 with second pin removed	
Pin	Input voltage
1 & 2	90-264 VAC or 85-285 VDC

CN2 output connector JST B 6B-XH-A/ B 4B-XH-A or equivalent		
Model	UP0201D-XX	
Pin	N=4	N=6
1	-	Common
2	Common	Common
3	Common	Common
4	Vo	Vo
5	Vo	Vo
6	-	Vo



UMEC International Corporation

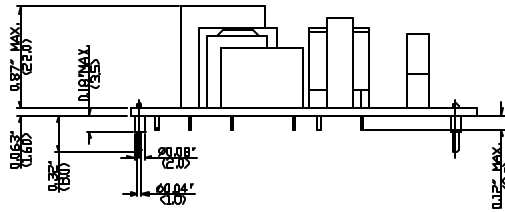
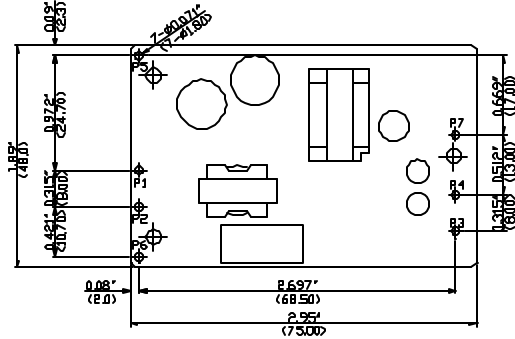
UP0201D-()

3 of 4

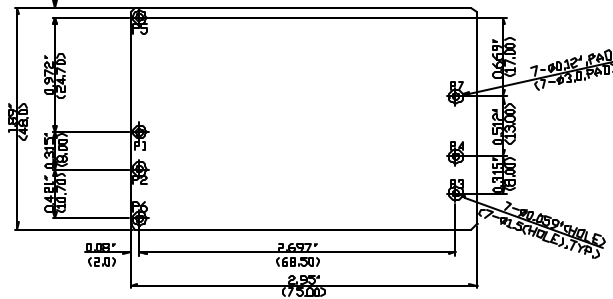
2570 West 237th Street, Suite B
Torrance, California 90505
Tel: 310-326-7072 Fax: 310-326-7058

REV.7

UP0201D-XXC1

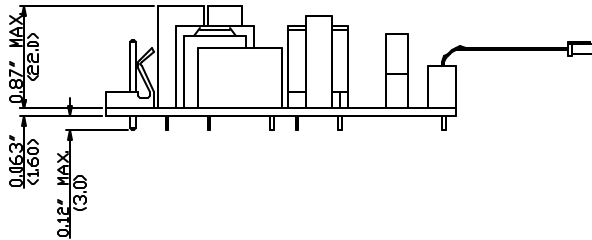
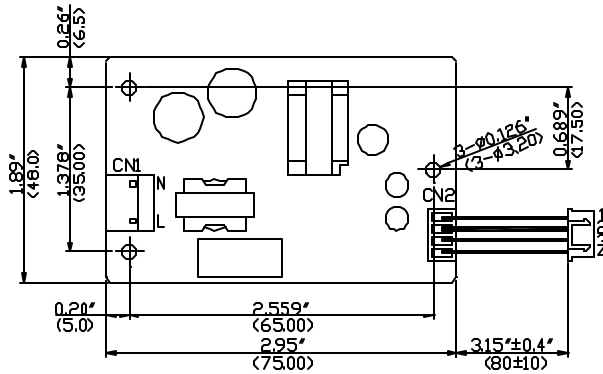


PCB layout recommend



Model	UP0201D-XXC1	
Pin	Pin out	REMARK
P1	N	
P2	L	
P3	Vo	
P4	Common	
P5	FG	Optional
P6	FG	Optional
P7	FG	Optional

UP0201D-XXC2



CN1 input connector Molex 09-65-2038 with second pin removed	
Pin	Input voltage
L&N	90-264 VAC

CN2 output connector JST B 6B-XH-A/ B 4B-XH-A or equivalent	
Model	UP0201D-XXC2
Wire	Pin out
Red	Vo
Black	Common

NOTES:

- #22 UL1007 wire used (4 wires & 6 wires is selectable).
- The wire length is adjustable and specified length is 80mm typical.

NOTES:

- All dimensions in inches (mm)
- Tolerance .XX=±0.04", .XXX=±0.010"



UMEC International Corporation

2570 West 237th Street, Suite B
Torrance, California 90505
Tel: 310-326-7072 Fax: 310-326-7058