



PCB Mount as small as  
3.5"L x 2.5"W x 0.98"H



Chassis 4.76"L x 2.56"W x 1.0"H

- Single / Dual / Triple Outputs
- Universal 90 to 264VAC Input
- 3.3VDC to 24VDC Outputs
- 3,000VAC Input to Output Isolation
- PCB and Chassis Mount Packages



Model Number	Output Voltage	Output Amps	Output Watts
<b>SINGLE OUTPUT - PCB Mount</b>			
MSCA-0300	3.3 VDC	7.5	25W
MSCA-0301	5 VDC	6	30W
MSCA-0302	12 VDC	2.5	30W
MSCA-0303	15 VDC	2	30W
MSCA-0305	24 VDC	1.25	30W
<b>SINGLE OUTPUT - Chassis Mount</b>			
MSCC-0300	3.3 VDC	7.5	25W
MSCC-0301	5 VDC	6	30W
MSCC-0302	12 VDC	2.5	30W
MSCC-0303	15 VDC	2	30W
MSCC-0305	24 VDC	1.25	30W
<b>SINGLE OUTPUT - DIN Rail Mount</b>			
MSCC-0300/DRL	3.3 VDC	7.5	25W
MSCC-0301/DRL	5 VDC	6	30W
MSCC-0302/DRL	12 VDC	2.5	30W
MSCC-0303/DRL	15 VDC	2	30W
MSCC-0305/DRL	24 VDC	1.25	30W

## 30W Ultraminiature Modular Switching Power Supplies

## MCA-30 series



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Model Number	Output Voltage	Output Amps	Output Watts
<b>DUAL OUTPUT - PCB Mount</b>			
MDCA-0306	±12 VDC	±1.25	30W
MDCA-0307	±15 VDC	±1	30W
MDCA-0308	+5/12 VDC	3/1.25	30W
<b>DUAL OUTPUT - Chassis Mount</b>			
MDCC-0306	±12 VDC	±1.25	30W
MDCC-0307	±15 VDC	±1	30W
MDCC-0308	+5/12 VDC	3/1.25	30W
<b>DUAL OUTPUT - DIN Rail Mount</b>			
MDCC-0306/DRL	±12 VDC	±1.25	30W
MDCC-0307/DRL	±15 VDC	±1	30W
MDCC-0308/DRL	+5/12 VDC	3/1.25	30W
<b>TRIPLE OUTPUT - PCB Mount</b>			
MTCA-0309	+5,±12 VDC	3,0.63/0.63	30W
MTCA-0311	+5,±15 VDC	3,0.5/0.5	30W
<b>TRIPLE OUTPUT - Chassis Mount</b>			
MTCC-0309	+5,±12 VDC	3,0.63/0.63	30W
MTCC-0311	+5,±15 VDC	3,0.5/0.5	30W
<b>TRIPLE OUTPUT - DIN Rail Mount</b>			
MTCC-0309/DRL	+5,±12 VDC	3,0.63/0.63	30W
MTCC-0311/DRL	+5,±15 VDC	3,0.5/0.5	30W

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### INPUT SPECIFICATIONS

Input Voltage	90-264VAC
	Nominal: 100-240VAC
Input Frequency	47-440 Hz
	Nominal: 50-60Hz
Inrush Current (100V / 200V)	Cold Start, 20A / 40A, typ
Leakage Current	<3.5mA at 264Vin, 50Hz

### OUTPUT SPECIFICATIONS

Output Voltage/Current	See Specific Model
Initial Accuracy	±1%, adjustable
Voltage Adjust	±6%, typ
Load Regulation (20%-100%)	±0.3%, typ
Line Regulation	±0.3%, typ
Cross Regulation	±3%, typ
Temperature Coefficient	±0.03%/°C
Ripple/Noise(20Mhz BW)	150mV Pk-Pk, typ
Overvoltage Protection	Clamp, 130-150% *
Hold Up Time	30mS, typ
Short Circuit Protection	Continuous, self-recovering *
Current Limit	130% typ, Self-Reset Foldback

### ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	0 to +50°C FL See Derate *
	(Free-air Convection)
Relative Humidity	0-95%, Non-Condensing
Storage Temperature	-25 to +71°C *
MTBF, Single/Multi Output	180,000 Hrs/110,000 Hrs
	Mil Std 217, 25C

\* These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long term reliability. Proper operation under conditions other than the standard operating conditions is neither warranted nor implied.

### PHYSICAL SPECIFICATIONS

Case Material	Rynite, 94V-0 Rated
Construction	Encapsulated, Soft Pot
Size PCB Mount	Single O/P: 3.5" x 2.5" x 0.98"
	Multi O/P: 4.06" x 2.5" x 0.98"
Chassis Mount	Single O/P: 4.76" x 2.56" x 1.0"
	Multi O/P: 5.34" x 2.56" x 1.0"
Weight PCB / CHASSIS	
Singles	10.4 oz (295g) / 13.4 oz (380g)
Duals/Triples	12.1 oz (343g) / 15.4 oz (437g)

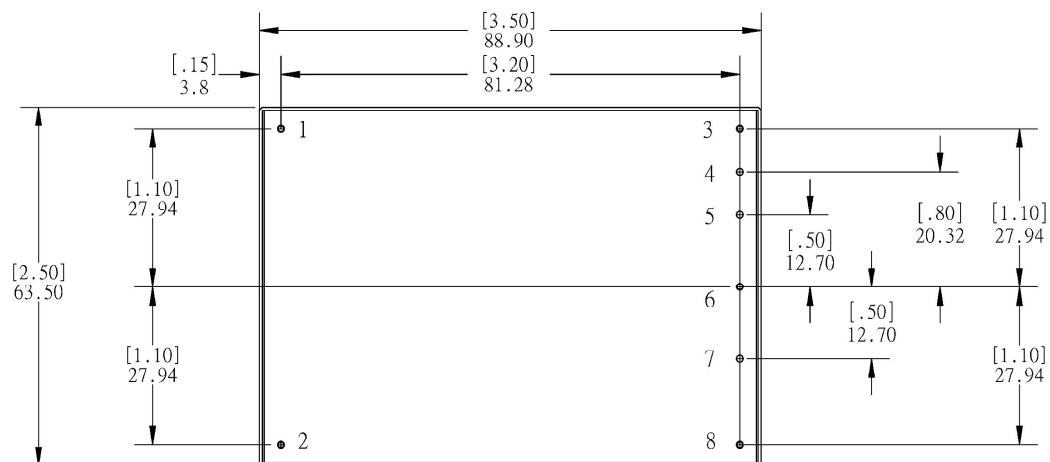
### GENERAL SPECIFICATIONS

On/Off Control	Open Collector
	Logic "1"/Open=ON
	Logic "0"/GND=OFF
Input-Out Isolation	3000VAC
Output-Ground Isolation	1000VAC
Input-Ground Isolation	2500VAC
Operating Frequency	140 Khz, typ., fixed
Efficiency (@ Full Load)	75 - 80%, typ (3.3V: 70% typ.)
Safety UL/cUL:	UL60950-1 2nd ed./
	C22.2 60950-1 2nd ed.
	EN60601-1 3rd ed.
EMI	EN55011 Class B

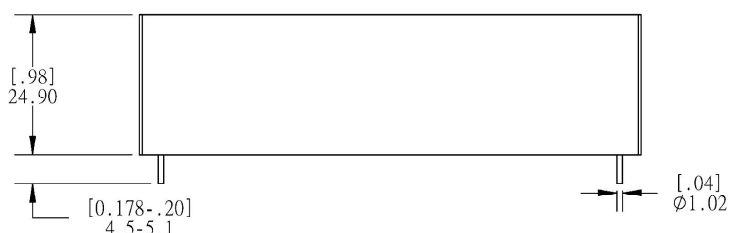
All specifications are typical at nominal input, full load, and 25DegC unless otherwise noted

## 30W Ultraminiature Modular Switching Power Supplies

### MECHANICAL DIMENSIONS - PCB MOUNT - SINGLE OUTPUT



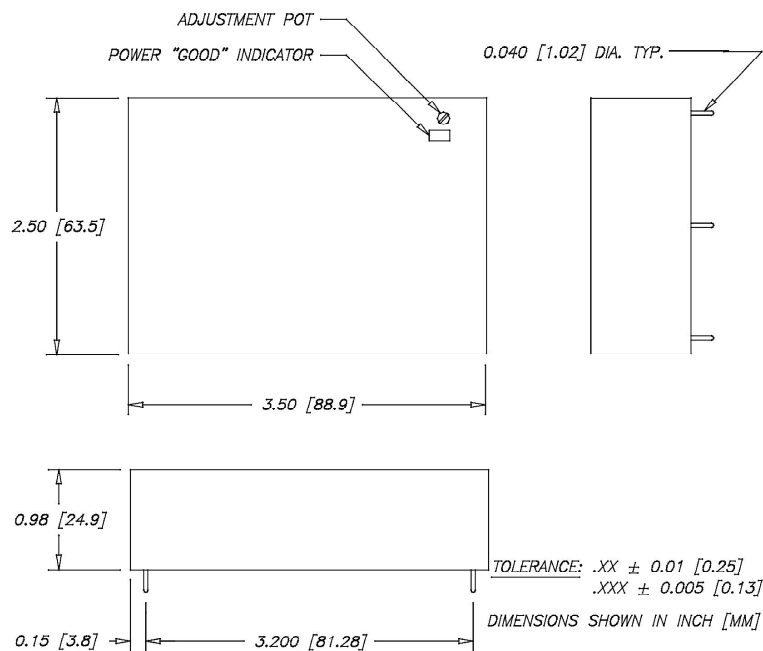
PIN - OUT VIEWED FROM BOTTOM



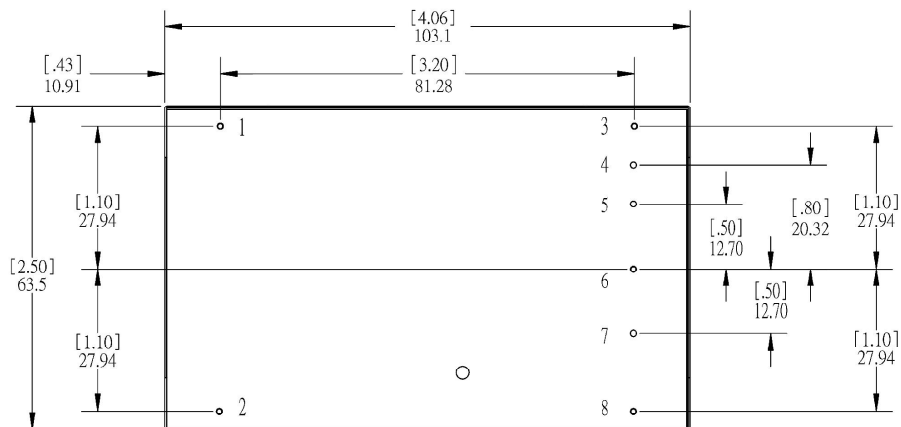
Model Type/Pin#	Single
1	AC HI
2	AC LO
3	No Pin
4	No Pin
5	No Pin
6	-Vout
7	No Pin
8	+Vout

NOTES :

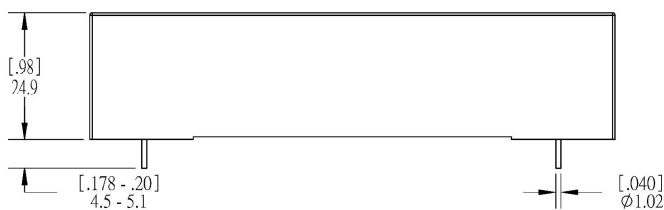
1. All dimension in mm [ inch ].  
2. tolerance : .XX $\pm$ 0.254 [0.01 ].  
.XXX $\pm$ 0.13[0.005].



**MECHANICAL DIMENSIONS - PCB MOUNT - DUAL & TRIPLE OUTPUT**



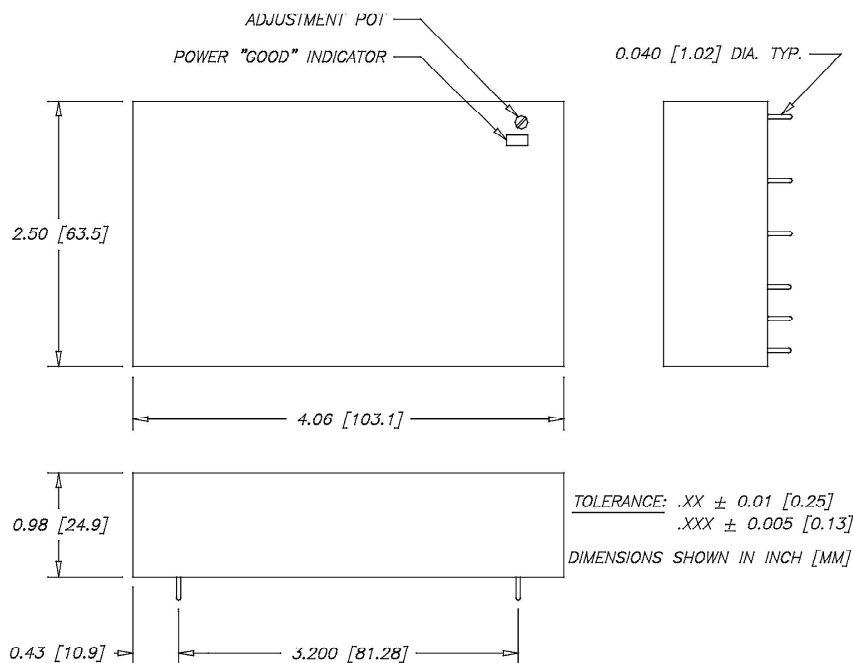
PIN-OUT VIEWED FROM BOTTOM



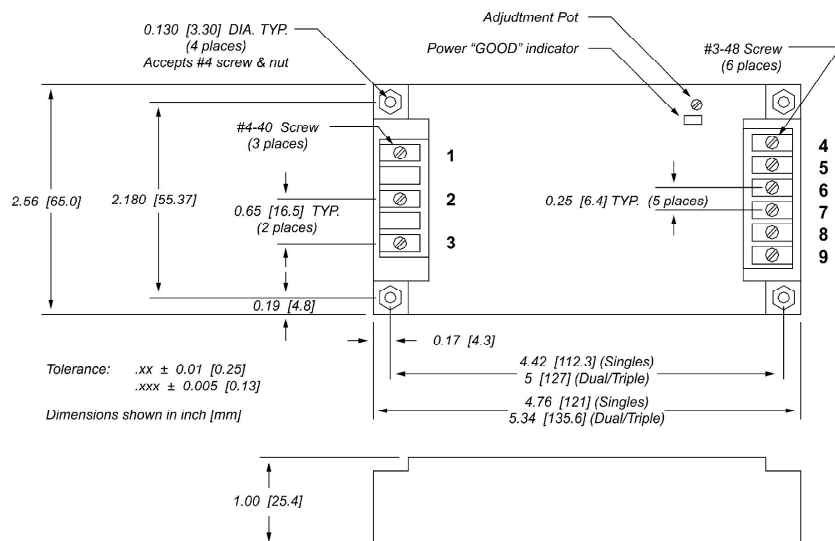
Model Type/Pin#	Dual Matched	Dual (5/12V)	Triple
1	AC HI	AC HI	AC HI
2	AC LO	AC LO	AC LO
3	-Vout	COM	-Vout
4	No Pin	No Pin	No Pin
5	No Pin	No Pin	+5VRTN
6	COM	+5Vout	+/-COM
7	No Pin	No Pin	+5Vout
8	+Vout	+12Vout	+Vout

NOTES :

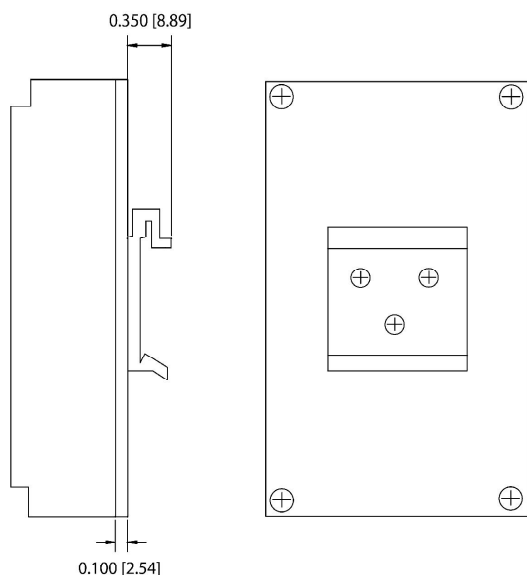
1. All dimension in mm [ inch ].
2. tolerance : .XX±0.254 [0.01 ].  
.XXX±0.13[0.005].



**MECHANICAL DIMENSIONS - CHASSIS MOUNT**



**MECHANICAL DIMENSIONS - DIN RAIL**



Model Type / Pin#	Single	Match Dual	Unmatch Dual	Triple
1	AC LO	AC LO	AC LO	AC LO
2	GND	GND	GND	GND
3	AC HI	AC HI	AC HI	AC HI
4	+Vout	+Vout	+12Vout	+Vout
5	+Vout	Com	+5Vout	+5Vout
6	-Vout	Com	+5Vout	± Com
7	-Vout	-Vout	Com	+5V Ret
8	N/C	N/C	Com	-Vout
9	Ctrl	Ctrl	Ctrl	Ctrl

DIN Rail mounting kit available for Chassis-mount modules.

- For 30 watt single outputs specify part # M-DRL-30S

- For 30 watt dual/single outputs specify part # M-DRL-30T

Kit includes mounting plate, DIN Rail clip and assembly hardware.

**PERFORMANCE CURVES**

