



# MEAN WELL

## SWITCHING POWER SUPPLY

### ISO-9001 CERTIFIED MANUFACTURER

# SMAU01L SERIES

- |                              |                                  |
|------------------------------|----------------------------------|
| .UNREGULATED DC OUTPUT       | .NO EXTERNAL COMPONENTS REQUIRED |
| .1000VDC I/O ISOLATION       | .HIGH RELIABILITY / LOW COST     |
| .INPUT FILTER:CAPACITOR TYPE | .100% BURN-IN TEST               |
| .INTERNAL SMD TECHNOLOGY     | .MTBF:700,000 HOURS              |

ORDER NO.	SMAU01L-05	SMAU01L-09	SMAU01L-12	SMAU01L-15										
SPECIFICATION														
DC OUTPUT VOLTAGE	5V	9V	12V	15V										
OUTPUT VOLTAGE ACCURACY	±2%													
OUTPUT RATED CURRENT	200mA	110mA	84mA	67mA										
OUTPUT CURRENT RANGE	0-200mA	0-110mA	0-84mA	0-67mA										
RIPPLE & NOISE	100mVp-p (max.)													
LINE REGULATION	±1.2% FOR 1% INPUT VARIATION													
LOAD REGULATION	±8% @ 20%-FULL LOAD													
DC OUTPUT POWER	1W	1W	1W	1W										
EFFICIENCY	77%	77%	79%	79%										
SWITCHING FREQUENCY	100KHz min.													
INPUT VOLTAGE RANGE	5 ±10% (4.5-5.5VDC)													
INPUT CURRENT	260mA max.													
SHORT CIRCUIT PROTECTION	MOMENTARY													
OVER VOLTAGE PROTECTION	-----													
TEMP. COEFFICIENT	±0.03% / °C (0-50°C)													
ISOLATION VOLTAGE	I/P-O/P:1 KVDC MIN.													
ISOLATION RESISTANCE	I/P-O/P:500VDC / 100M Ohms MIN.													
ISOLATION CAPACITANCE	80pF max.													
WORKING TEMP., HUMIDITY	-25°C~+60°C, 20%~90% RH (NO DERATING); 80% LOAD @ 71°C													
STORAGE TEMP., HUMIDITY	-40°C~+105°C, 10%~95% RH													
DIMENSION	0.50 ""0.27 ""0.40 ""													
WEIGHT	1.7g													
CASE METERIAL	NON-CONDUCTIVE PLASTIC													
MECHANISM AND PIN CONFIGURATION	<table border="1" style="float: right; margin-top: 10px;"> <thead> <tr> <th>Pin no.</th> <th>SINGLE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-Vin</td> </tr> <tr> <td>4</td> <td>+Vin</td> </tr> <tr> <td>5</td> <td>+Vout</td> </tr> <tr> <td>7</td> <td>-Vout</td> </tr> </tbody> </table>				Pin no.	SINGLE	1	-Vin	4	+Vin	5	+Vout	7	-Vout
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- NOTE :
- 1.ALL PARAMETERS ARE SPECIFIED AT RATED INPUT, RATED LOAD, 25°C 70% RH. AMBIENT.
  - 2.RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
  - 3.LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
  - 4.LOAD REGULATION IS MEASURED FROM 20% TO 100% RATED LOAD.