



# MEAN WELL

## SWITCHING POWER SUPPLY

### ISO-9001 CERTIFIED MANUFACTURER

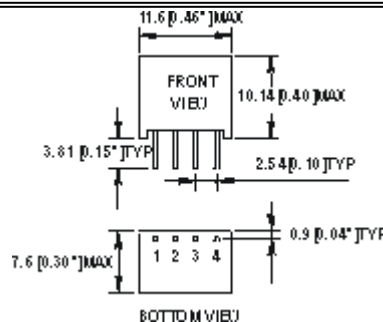
## SMU01N-B SERIES

.UNREGULATED DC OUTPUT  
.1000VDC I/O ISOLATION  
.INPUT FILTER:CAPACITOR TYPE  
.INTERNAL SMD TECHNOLOGY

.NO EXTERNAL COMPONENTS REQUIRED  
.HIGH RELIABILITY / LOW COST  
.100% BURN-IN TEST  
.MTBF:700,000 HOURS

| ORDER NO.                | SMU01N-05B                                                                                                  | SMU01N-09B | SMU01N-12B | SMU01N-15B |
|--------------------------|-------------------------------------------------------------------------------------------------------------|------------|------------|------------|
| SPECIFICATION            |                                                                                                             |            |            |            |
| DC OUTPUT VOLTAGE        | 5V                                                                                                          | 9V         | 12V        | 15V        |
| OUTPUT VOLTAGE ACCURACY  | $\pm 2\%$                                                                                                   |            |            |            |
| 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          | $\pm 1.2\%$ FOR 1% INPUT VARIATION                                                                          |            |            |            |
| LOAD REGULATION          | $\pm 8\%$ @ 20%~FULL LOAD                                                                                   |            |            |            |
| DC OUTPUT POWER          | 1W                                                                                                          | 1W         | 1W         | 1W         |
| EFFICIENCY               | 73%                                                                                                         | 77%        | 77%        | 80%        |
| SWITCHING FREQUENCY      | 100KHz min.                                                                                                 |            |            |            |
| INPUT VOLTAGE RANGE      | 24 $\pm 10\%$ (21.6~26.4VDC)                                                                                |            |            |            |
| INPUT CURRENT            | 57mA max.                                                                                                   |            |            |            |
| SHORT CIRCUIT PROTECTION | MOMENTARY                                                                                                   |            |            |            |
| OVER VOLTAGE PROTECTION  | -----                                                                                                       |            |            |            |
| TEMP. COEFFICIENT        | $\pm 0.03\%$ / $^{\circ}\text{C}$ (0~50 $^{\circ}\text{C}$ )                                                |            |            |            |
| 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 $^{\circ}\text{C}$ ~+60 $^{\circ}\text{C}$ , 20%~90% RH (NO DERATING); 80% LOAD @ 71 $^{\circ}\text{C}$ |            |            |            |
| STORAGE TEMP., HUMIDITY  | -40 $^{\circ}\text{C}$ ~+105 $^{\circ}\text{C}$ , 10%~95% RH                                                |            |            |            |
| DIMENSION                | 0.46 "x0.40 "x0.30 "                                                                                        |            |            |            |
| WEIGHT                   | 1.3 g                                                                                                       |            |            |            |
| CASE MATERIA             | NON-CONDUCTIVE PLASTIC                                                                                      |            |            |            |

#### MECHANISM AND PIN CONFIGURATION



| Pin no. | SINGLE |
|---------|--------|
| 1       | -Vin   |
| 2       | +Vin   |
| 3       | -Vout  |
| 4       | +Vout  |

NOTE : 1.ALL PARAMETERS ARE SPECIFIED AT RATED INPUT, RATED LOAD, 25 $^{\circ}\text{C}$  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.

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