



MEAN WELL

SWITCHING POWER SUPPLY

ISO-9001 CERTIFIED MANUFACTURER

SMAU01N 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. | SMAU01N-05 | SMAU01N-09 | SMAU01N-12 | SMAU01N-15 | | | | | | | | | | |
|---------------------------------|--|------------|------------|---|---------|--------|---|------|---|------|---|-------|---|-------|
| 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 | 77% | 77% | 77% | 80% | | | | | | | | | | |
| SWITCHING FREQUENCY | 100KHz min. | | | | | | | | | | | | | |
| INPUT VOLTAGE RANGE | 24 $\pm 10\%$ (21.6-26.4VDC) | | | | | | | | | | | | | |
| INPUT CURRENT | 54mA max. | | | | | | | | | | | | | |
| SHORT CIRCUIT PROTECTION | MOMENTARY | | | | | | | | | | | | | |
| OVER VOLTAGE PROTECTION | ----- | | | | | | | | | | | | | |
| TEMP. COEFFICIENT | $\pm 0.03\%$ / °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 "x0.27 "x0.40 " | | | | | | | | | | | | | |
| WEIGHT | 1.7g | | | | | | | | | | | | | |
| CASE METERIAL | NON-CONDUCTIVE PLASTIC | | | | | | | | | | | | | |
| MECHANISM AND PIN CONFIGURATION | | | | <table border="1"> <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 |
| Pin no. | SINGLE | | | | | | | | | | | | | |
| 1 | -Vin | | | | | | | | | | | | | |
| 4 | +Vin | | | | | | | | | | | | | |
| 5 | +Vout | | | | | | | | | | | | | |
| 7 | -Vout | | | | | | | | | | | | | |

- 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.