



# MEAN WELL

## SWITCHING POWER SUPPLY

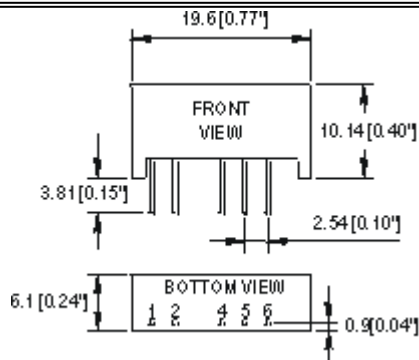
ISO-9001 CERTIFIED MANUFACTURER

# SPU01L-A 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.                | SPU01L-05A   | SPU01L-09A | SPU01L-12A | SPU01L-15A |
|--------------------------|--|------------|------------|------------|
| SPECIFICATION            |  |            |            |            |
| DC OUTPUT VOLTAGE        | 5V   | 9V         | 12V        | 15V        |
| OUTPUT VOLTAGE ACCURACY  | ±2%  |            |            |            |
| OUTPUT RATED CURRENT     | 200mA  | 111mA      | 84mA       | 67mA       |
| OUTPUT CURRENT RANGE     | 0-200mA  | 0-111mA    | 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               | 73%  | 78%        | 79%        | 79%        |
| SWITCHING FREQUENCY      | 100KHz min.  |            |            |            |
| INPUT VOLTAGE RANGE      | 5 ±10% (4.5-5.5VDC)                                    |            |            |            |
| INPUT CURRENT            | 274mA 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                | 0.77 ""0.40 ""0.24 ""                                  |            |            |            |
| WEIGHT                   | 2.1g   |            |            |            |
| CASE METERIAL            | NON-CONDUCTIVE PLASTIC                                 |            |            |            |

MECHANISM AND PIN CONFIGURATION



| Pin no. | SINGLE |
|---------|--------|
| 1       | +Vin   |
| 2       | -Vin   |
| 4       | -Vout  |
| 5       | NP     |
| 6       | +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.