

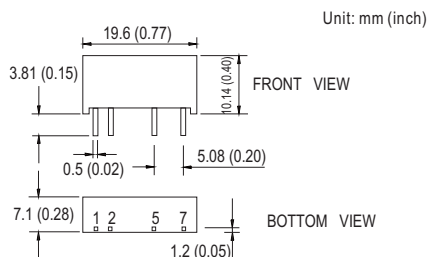
- Features :
  - 3000VDC I/O isolation
  - Internal SMD technology
  - Built-in EMI filter
  - Protection: Short circuit
  - Cooling by free air convection
  - Non-conductive plastic case
  - Single in line package
  - 100% full load burn-in test
  - Low cost / High reliability
  - 2 years warranty



**SPECIFICATION**

| ORDER NO.           | SPU02L-05                    | SPU02M-05  | SPU02N-05  | SPU02L-12    | SPU02M-12    | SPU02N-12  | SPU02L-15    | SPU02M-15    | SPU02N-15  |              |              |
|---------------------|------------------------------|--|--|--------------|--------------|------------|--------------|--------------|------------|--------------|--------------|
| OUTPUT              | DC OUTPUT VOLTAGE            |  |  | 12V          |              |            | 15V          |              |            |              |              |
|                     | CURRENT RANGE                |  |  | 33 ~ 167mA   |              |            | 27 ~ 133mA   |              |            |              |              |
|                     | EFFICIENCY (Typ.)            |  | 77%  | 79%          | 77%          | 80%        | 81%          | 80%          | 81%        | 83%          | 82%          |
|                     | RATED POWER                  |  | 2W   |              |              |            |              |              |            |              |              |
|                     | RIPPLE & NOISE (max.) Note.2 |  | 100mVp-p   |              |              |            |              |              |            |              |              |
|                     | LINE REGULATION Note.3       |  | ±1.2% for 1% input variation                       |              |              |            |              |              |            |              |              |
|                     | LOAD REGULATION Note.4       |  | ±8.0%  |              |              |            |              |              |            |              |              |
|                     | VOLTAGE ACCURACY             |  | ±2.0%  |              |              |            |              |              |            |              |              |
| SWITCHING FREQUENCY |                              | 100KHz min.  |  |              |              |            |              |              |            |              |              |
| INPUT               | VOLTAGE RANGE                |  | 4.5 ~ 5.5V   | 10.8 ~ 13.2V | 21.6 ~ 26.4V | 4.5 ~ 5.5V | 10.8 ~ 13.2V | 21.6 ~ 26.4V | 4.5 ~ 5.5V | 10.8 ~ 13.2V | 21.6 ~ 26.4V |
|                     | NORMAL VOLTAGE               |  | 5V   | 12V          | 24V          | 5V         | 12V          | 24V          | 5V         | 12V          | 24V          |
|                     | INPUT CURRENT                | Full load  | 520mA  | 214mA        | 107mA        | 520mA      | 214mA        | 107mA        | 520mA      | 214mA        | 107mA        |
|                     |                              | No load  | 60mA   | 20mA         | 15mA         | 60mA       | 20mA         | 15mA         | 60mA       | 20mA         | 15mA         |
|                     | FILTER                       |  | Capacitor type                                     |              |              |            |              |              |            |              |              |
| PROTECTION          |                              | Fuse recommended   |  |              |              |            |              |              |            |              |              |
| PROTECTION          | OVERLOAD                     |  | Momentary<br>Protection type : Broken              |              |              |            |              |              |            |              |              |
|                     | SHORT CIRCUIT                |  | Momentary<br>Protection type : Broken              |              |              |            |              |              |            |              |              |
| ENVIRONMENT         | WORKING TEMP.                |  | -40 ~ +71°C (Refer to "Derating Curve")            |              |              |            |              |              |            |              |              |
|                     | WORKING HUMIDITY             |  | 20% ~ 90% RH non-condensing                        |              |              |            |              |              |            |              |              |
|                     | STORAGE TEMP., HUMIDITY      |  | -40 ~ +105°C, 10 ~ 95% RH                          |              |              |            |              |              |            |              |              |
|                     | TEMP. COEFFICIENT            |  | ±0.03% / °C (0 ~ 50°C)                             |              |              |            |              |              |            |              |              |
| VIBRATION           |                              | 10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes |  |              |              |            |              |              |            |              |              |
| SAFETY & EMC        | WITHSTAND VOLTAGE            |  | I/P-O/P:3KVDC                                      |              |              |            |              |              |            |              |              |
|                     | ISOLATION RESISTANCE         |  | I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH        |              |              |            |              |              |            |              |              |
|                     | ISOLATION CAPACITANCE        |  | 80pF max.  |              |              |            |              |              |            |              |              |
|                     | EMC EMISSION                 |  | Compliance to EN55032 Class B, FCC part 15 Class B |              |              |            |              |              |            |              |              |
| EMC IMMUNITY        |                              | Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A    |  |              |              |            |              |              |            |              |              |
| OTHERS              | MTBF                         |  | 700khrs min. MIL-HDBK-217F(25°C)                   |              |              |            |              |              |            |              |              |
|                     | DIMENSION                    |  | 19.6*7.1*10.2mm or 0.77**0.28**0.40" inch (L*W*H)  |              |              |            |              |              |            |              |              |
|                     | WEIGHT                       |  | 2.3g   |              |              |            |              |              |            |              |              |

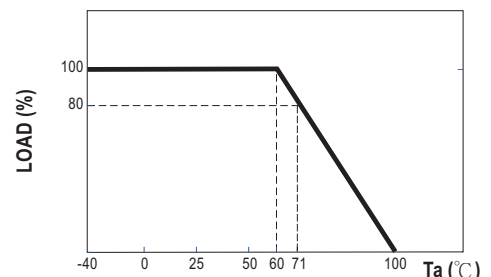
■ Mechanical Specification



■ Pin Configuration

| Pin No. | Output |
|---------|--------|
| 1       | +Vin   |
| 2       | -Vin   |
| 5       | -Vout  |
| 7       | +Vout  |

■ Derating Curve



**NOTE**

- 1.All parameters are specified at normal 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.

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