



■ Features :

- 1000VDC I/O isolation
- Internal SMD technology
- Built-in EMI filter
- Cooling by free air convection
- Non-conductive plastic case
- Dual in line package
- 100% burn-in test
- Low cost / High reliability
- 2 years warranty

SELECTION GUIDE

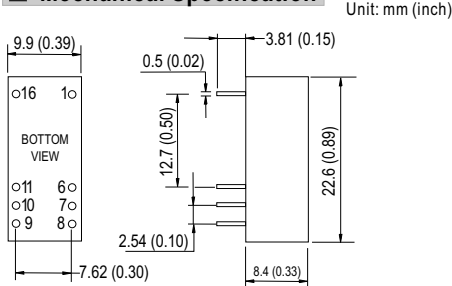
| ORDER NO. | SUS01L-05 | SUS01M-05 | SUS01N-05 | SUS01O-05 | SUS01L-09 | SUS01M-09 | SUS01N-09 | SUS01O-09 |
|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| DC OUTPUT VOLTAGE | 5V | | | | 9V | | | |
| OUTPUT CURRENT RANGE | 0 ~ 200mA | | | | 0 ~ 111mA | | | |
| EFFICIENCY | 73% | 74% | 72% | 74% | 75% | 79% | 80% | 77% |

| ORDER NO. | SUS01L-12 | SUS01M-12 | SUS01N-12 | SUS01O-12 | SUS01L-15 | SUS01M-15 | SUS01N-15 | SUS01O-15 |
|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| DC OUTPUT VOLTAGE | 12V | | | | 15V | | | |
| OUTPUT CURRENT RANGE | 0 ~ 84mA | | | | 0 ~ 67mA | | | |
| EFFICIENCY | 78% | 82% | 83% | 83% | 79% | 82% | 83% | 83% |

SPECIFICATION

| | | | | | | | | | | |
|--------------|------------------------------|--|--------------|--------------|--------------|------------|--------------|--------------|--------------|------|
| OUTPUT | RATED POWER | 1W | | | | | | | | |
| | 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 | 50KHz min. | | | | | | | | |
| INPUT | VOLTAGE RANGE | 4.5 ~ 5.5V | 10.8 ~ 13.2V | 21.6 ~ 26.4V | 43.2 ~ 52.8V | 4.5 ~ 5.5V | 10.8 ~ 13.2V | 21.6 ~ 26.4V | 43.2 ~ 52.8V | |
| | NORMAL VOLTAGE | 5V | 12V | 24V | 48V | 5V | 12V | 24V | 48V | |
| | INPUT CURRENT | Full load | 280mA | 112mA | 55mA | 28mA | 280mA | 112mA | 55mA | 28mA |
| | | No load | 21mA | 11mA | 10mA | 3mA | 21mA | 11mA | 10mA | 3mA |
| | FILTER | Capacitor type | | | | | | | | |
| PROTECTION | Fuse recommended | | | | | | | | | |
| PROTECTION | OVERLOAD | Momentary | | | | | | | | |
| | | Protection type : Broken | | | | | | | | |
| | SHORT CIRCUIT | Momentary Protection type : Broken | | | | | | | | |
| ENVIRONMENT | WORKING TEMP. | -25 ~ +71°C (Refer to output load derating curve) | | | | | | | | |
| | WORKING HUMIDITY | 20% ~ 90% RH non-condensing | | | | | | | | |
| | STORAGE TEMP., HUMIDITY | -25 ~ +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: 1KVDC | | | | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH | | | | | | | | |
| | ISOLATION CAPACITANCE | 80pF max. | | | | | | | | |
| OTHERS | MTBF | 700khrs min. MIL-HDBK-217F(25°C) | | | | | | | | |
| | DIMENSION | 22.6*9.9*8.4mm or 0.89*0.39*0.33" inch (L*W*H) | | | | | | | | |
| | WEIGHT | 3.1g | | | | | | | | |

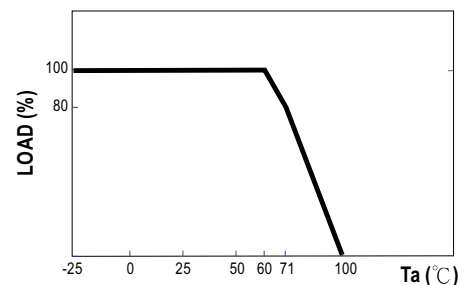
■ Mechanical Specification



■ Pin Configuration

| Pin No. | Output |
|---------|--------|
| 1 & 16 | +Vin |
| 6 & 11 | -Vout |
| 7 & 10 | +Vout |
| 8 & 9 | -Vin |

■ 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.