


**■ Features :**

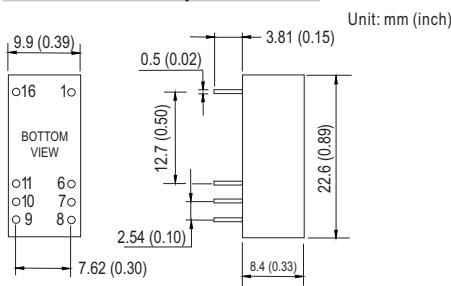
- 1000VDC I/O isolation
- Internal SMD technology
- Built-in EMI filter
- Cooling by free air convection
- Non-conductive plastic case
- Dual in line package
- 100% burn-in test
- Low cost / High reliability
- Approvals: FCC / CE
- 2 years warranty

**SELECTION GUIDE**

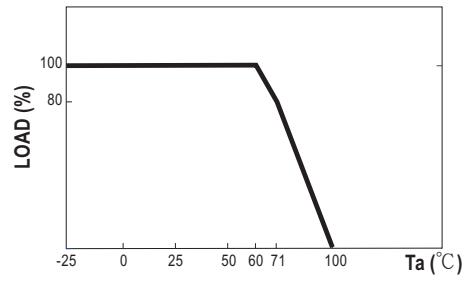
| ORDER NO. | SRS-0505          | SRS-1205  | SRS-2405 | SRS-4805 | SRS-0509 | SRS-1209 | SRS-2409 | SRS-4809 |
|-----------|-------------------|-----------|----------|----------|----------|----------|----------|----------|
| OUTPUT    | DC VOLTAGE        | 5V        |          |          | 9V       |          |          |          |
|           | CURRENT RANGE     | 0 ~ 100mA |          |          | 0 ~ 56mA |          |          |          |
|           | EFFICIENCY (TYP.) | 60%       |          |          | 60%      |          |          |          |
| ORDER NO. | SRS-0512          | SRS-1212  | SRS-2412 | SRS-4812 | SRS-0515 | SRS-1215 | SRS-2415 | SRS-4815 |
| OUTPUT    | DC VOLTAGE        | 12V       |          |          | 15V      |          |          |          |
|           | CURRENT RANGE     | 0 ~ 42mA  |          |          | 0 ~ 34mA |          |          |          |
|           | EFFICIENCY (TYP.) | 60%       |          |          | 60%      |          |          |          |

**SPECIFICATION**

|                      |                              |  |              |              |              |            |              |              |              |
|----------------------|------------------------------|--|--------------|--------------|--------------|------------|--------------|--------------|--------------|
| OUTPUT               | RATED POWER                  | 0.5W   |              |              |              |            |              |              |              |
|                      | RIPPLE & NOISE (max.) Note.2 | 100mVp-p   |              |              |              |            |              |              |              |
|                      | LINE REGULATION              | ±1.0%  |              |              |              |            |              |              |              |
|                      | LOAD REGULATION Note.3       | ±1.0%  |              |              |              |            |              |              |              |
|                      | VOLTAGE ACCURACY             | ±2.0%(Typ.) ±3.0%(max.)  |              |              |              |            |              |              |              |
|                      | 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  | 175mA        | 72mA         | 36mA         | 19mA       | 175mA        | 72mA         | 36mA         |
|                      |                              | No load  | 37mA         | 15mA         | 9mA          | 5mA        | 37mA         | 15mA         | 9mA          |
| PROTECTION (Note. 4) | FILTER                       | Capacitor type   |              |              |              |            |              |              |              |
|                      | PROTECTION                   | Fuse recommended   |              |              |              |            |              |              |              |
| ENVIRONMENT          | OVERLOAD                     | 150 ~ 350% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed          |              |              |              |            |              |              |              |
|                      | SHORT CIRCUIT                | All output equipped with short circuit<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed |              |              |              |            |              |              |              |
| SAFETY & EMC         | WORKING TEMP.                | -25 ~ +71°C (Refer to "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)  |              |              |              |            |              |              |              |
| OTHERS               | VIBRATION                    | 10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes   |              |              |              |            |              |              |              |
|                      | SAFETY STANDARDS             | EAC TP TC 004 approved   |              |              |              |            |              |              |              |
|                      | WITHSTAND VOLTAGE            | I/P-O/P:1KVDC  |              |              |              |            |              |              |              |
| ISOLATION RESISTANCE | 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, EAC TP TC 020  |              |              |              |            |              |              |              |
|                      | EMC IMMUNITY                 | Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A, EAC TP TC 020   |              |              |              |            |              |              |              |
| DIMENSION            | MTBF                         | 600khrs 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. Load regulation is measured from 10% to 100% rated load.
4. Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.

# Mouser Electronics

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