



- 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

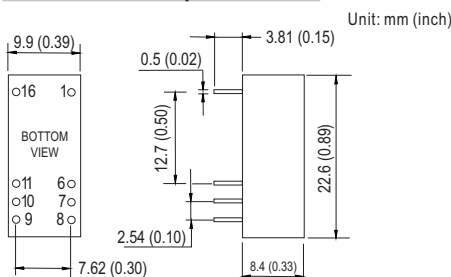
| ORDER NO. | SRS-0505 | SRS-1205 | SRS-2405 | SRS-4805 | SRS-0509 | SRS-1209 | SRS-2409 | SRS-4809 |
|-----------|-------------------|----------|----------|----------|----------|----------|----------|----------|
| OUTPUT | DC VOLTAGE | | | | 9V | | | |
| | CURRENT RANGE | | | | 0 ~ 56mA | | | |
| | EFFICIENCY (TYP.) | | | | 60% | | | |

| ORDER NO. | SRS-0512 | SRS-1212 | SRS-2412 | SRS-4812 | SRS-0515 | SRS-1215 | SRS-2415 | SRS-4815 |
|-----------|-------------------|----------|----------|----------|----------|----------|----------|----------|
| OUTPUT | DC VOLTAGE | | | | 15V | | | |
| | CURRENT RANGE | | | | 0 ~ 34mA | | | |
| | EFFICIENCY (TYP.) | | | | 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 | 19mA |
| | | No load | 37mA | 15mA | 9mA | 5mA | 37mA | 15mA | 9mA | 5mA |
| | FILTER | | Capacitor type | | | | | | | |
| PROTECTION | | Fuse recommended | | | | | | | | |
| PROTECTION (Note. 4) | OVERLOAD | | 150 ~ 350% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | | | | |
| | SHORT CIRCUIT | | All output equipped with short circuit Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | | | | |
| ENVIRONMENT | 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) | | | | | | | |
| | 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. | | | | | | | |
| | EMC EMISSION | | Compliance to EN55022 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 | | 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 | | | | | | | |

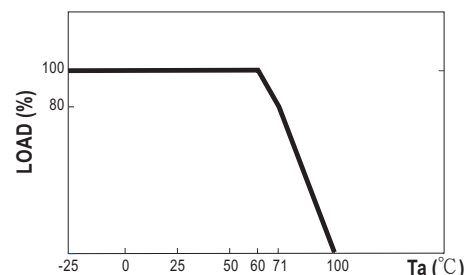
Mechanical Specification



Pin Configuration

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

Derating Curve



NOTE

- All parameters are specified at normal input, rated load, 25°C 70% RH ambient.
- Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.
- Load regulation is measured from 10% to 100% rated load.
- Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.