


## 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
- SIP packge is available
- 100% burn-in test
- Low cost / High reliability
- 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% | | | |

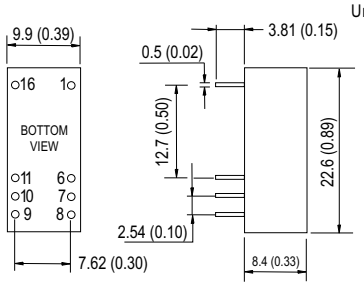
| ORDER NO. | | SRS-0512 | SRS-1212 | SRS-2412 | SRS-4812 | SRS-0515 | SRS-1215 | SRS-2415 | SRS-4815 |
|---|---|---|---|---|---|---|---|---|---|
| OUTPUT | DC VOLTAGE | 12V | | | | 15V | | | |
| | CURRENT RANGE | 0 ~ 42mA | | | | 0 ~ 34mA | | | |
| | EFFICIENCY (TYP.) | 60% | | | | 60% | | | |

## 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 | 19mA |
| | INPUT CURRENT 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℃ (Refer to output load derating curve) | | | | | | | |
| | WORKING HUMIDITY | 20% ~ 90% RH non-condensing | | | | | | | |
| | STORAGE TEMP., HUMIDITY | -25 ~ +105℃, 10 ~ 95% RH | | | | | | | |
| | TEMP. COEFFICIENT | ±0.03% / ℃(0 ~ 50℃) | | | | | | | |
| | 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℃/ 70% RH | | | | | | | |
| | ISOLATION CAPACITANCE | 80pF max. | | | | | | | |
| OTHERS | MTBF | 600khrs min. MIL-HDBK-217F(25℃) | | | | | | | |
| | DIMENSION | 22.6*9.9*8.4mm or 0.89"*0.39"*0.33" inch (L*W*H) | | | | | | | |
| | WEIGHT | 3.1g | | | | | | | |

## Mechanical Specification

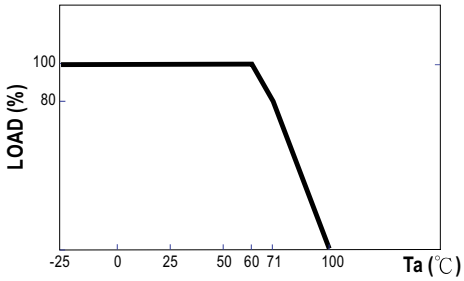
Unit: mm (inch)




## 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℃ 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.