



### ■ Features :

- Internal SMD technology
- 1000VDC I/O isolation
- 3000VDC isolation is available
- Input filter: Capacitor type
- Non-conductive plastic case
- Dual in line package
- SIP package is available
- High reliability / Low cost
- 100% burn-in test
- 1 year 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%      |          |          |  |

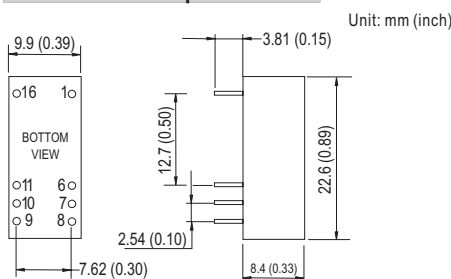
  

| ORDER NO. | SRS-0512          | SRS-1212 | SRS-2412 | SRS-4812 | SRS-0515 | SRS-1215 | SRS-2415 | SRS-4815 |  |
|-----------|-------------------|----------|----------|----------|----------|----------|----------|----------|--|
| OUTPUT    | DC VOLTAGE        | 12V      |          |          |          | 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%  |            |            |            |          |            |            |            |      |
|                      | 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  | 166mA      | 66mA       | 32mA       | 18mA     | 166mA      | 66mA       | 32mA       | 18mA |
|                      |                              | No load  | 12mA       | 10mA       | 8mA        | 6mA      | 12mA       | 10mA       | 8mA        | 6mA  |
|                      | FILTER                       | Capacitor type   |            |            |            |          |            |            |            |      |
| PROTECTION (Note. 4) | OVER LOAD                    | 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 |            |            |            |          |            |            |            |      |
| 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  |            |            |            |          |            |            |            |      |
|                      | ISOLATION CAPACITANCE        | 80pF max.  |            |            |            |          |            |            |            |      |
| 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   |            |            |            |          |            |            |            |      |

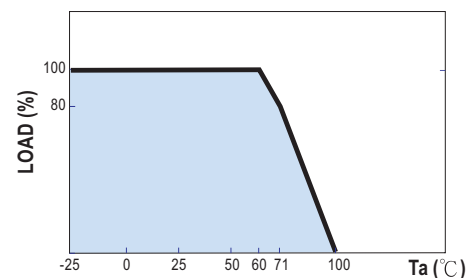
### ■ Mechanical Specification



### ■ Pin Configuration

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

### ■ Derating Curve



### NOTE

- 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.