



■ Features :

- Single in line package
- 2:1 wide input range
- 1500VDC I/O isolation
- Built-in EMI filter without external components
- Protections: Short circuit / Overload
- · Cooling by free air convection
- 100% full load burn-in test
- · Low cost / High reliability
- · 2 years warranty

SPECIFICATION



| ORDER NO. | | | SPA01A-05 | SPA01B-05 | SPA01C-05 | SPA01A-12 | SPA01B-12 | SPA01C-12 | SPA01A-15 | SPA01B-15 | SPA01C-15 | |
|-------------------------|------------------------------|---------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| ОИТРИТ | DC VOLTAGE | | 5V | | | 12V | | | 15V | | | |
| | CURRENT RANGE | | 20 ~ 200mA 8 ~ 83mA | | | | | | 6 ~ 67mA | | | |
| | RATED POWER | | 1W | | | | | | | | | |
| | RIPPLE & NOISE (max.) Note.2 | | 60mVp-p | | | 80mVp-p | | | 80mVp-p | | | |
| | LINE REGULATION Note.3 | | 3 ±0.5% | | | | | | | | | |
| | | | 4 ±0.5% | | | | | | | | | |
| | VOLTAGE ACCURACY | | ±2.0% | | | | | | | | | |
| SWITCHING FREQUENCY | | | 100KHz min. | | | | | | | | | |
| INPUT | VOLTAGE RANGE | | A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 75VDC | | | | | | | | | |
| | EFFICIENCY (Typ.) | | 77% | 77% | 77% | 78% | 78% | 78% | 79% | 79% | 79% | |
| | DC CURRENT | | A: 110mA B: 55mA C: 27mA | | | | | | | | | |
| | | No load | A: 20mA B: 10mA C: 7mA | | | | | | | | | |
| | FILTER | | Capacitor Type | | | | | | | | | |
| | PROTECTION | | Fuse recommended | | | | | | | | | |
| PROTECTION (Note. 5) | OVERLOAD | | 130 ~ 200% rated output power | | | | | | | | | |
| | | | Protection type: Recovers automatically after fault condition is removed | | | | | | | | | |
| | SHORT CIRCUIT | | All output equipped with short circuit | | | | | | | | | |
| | | | Protection type: Recovers automatically after fault condition is removed | | | | | | | | | |
| ENVIRONMENT | WORKING TEMP. | | -40 ~ +90°C (Refer to "Derating Curve") | | | | | | | | | |
| | WORKING HUMIDITY | | 20% ~ 90% RH non-condensing | | | | | | | | | |
| | | | -40 ~ +105°C, 10 ~ 95% RH | | | | | | | | | |
| | TEMP. COEFFICIENT | | ±0.05% / °C (0 ~ 50°C) | | | | | | | | | |
| | VIBRATION WITHSTAND VOLTAGE | | 10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes I/P-O/P:1.5KVDC | | | | | | | | | |
| | ISOLATION RESISTANCE | | | | | | | | | | | |
| | | | I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH 80pF max. | | | | | | | | | |
| | EMC EMISSION | | Compliance to EN55022 Class B, FCC part 15 Class B | | | | | | | | | |
| | EMC IMMUNITY | | Compliance to EN33022 class B, FCC part 13 class B Compliance to EN61000-4-2,3,4,5,6,8 light industry level, criteria A | | | | | | | | | |
| | MTBF | | 500Khrs min. MIL-HDBK-217F(25°C) | | | | | | | | | |
| OTHERS | DIMENSION | | 17.4*7.75*11.1mm or 0.69"*0.30"*0.44" inch (L*W*H) | | | | | | | | | |
| | | | 3g | 2. 2. 20 | | () | | | | | | |

Mechanical Specification

FRONT VIEW

5.08 5.08

(0.2) (0.2)

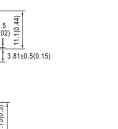
12.7(0.5)

BOTTOM VIEW

2.35(0.09)



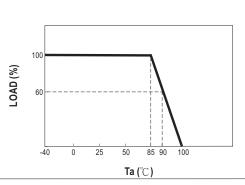




Pin No. Output 1 -Vin 2 +Vin 4 +Vout 6 -Vout

■ Pin Configuration

■ Derating Curve



NOTE

0.55±0.05(0.02)

2.4(0.09)

2.54(0.1)

- 2. Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1 uf & 47 uf capacitor.
- 3.Line regulation is measured from low line to high line at rated load.
- 4.Load regulation is measured from 10% to 100% rated load.
- 5.Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.

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