

DC-DC Astra**AS2-xxDxxW****AS2-xxSxxW****1000Vdc Isolation Single & Dual Output 2 Watt Dc-Dc Converter**

ООО Компания "Элемент"

**FEATURES:**

7PIN SIP PACKAGE.

High Efficiency up to 85%

Recognized By UL 60950-1

Unregulated Output Types

Internal SMD Construction No External Component Required

Operating Temperature:-40°C TO +85°C Industry Standard Pinout

Specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified

| Part Number | Output Voltage | Output Current | Efficiency |
|-------------|----------------|----------------|------------|
| | Vdc | mA | %TYP |
| AS2XXS05W | 5 | 400 | 70 |
| AS2XXS09W | 9 | 222 | 75 |
| AS2XXS12W | 12 | 167 | 80 |
| AS2XXS15W | 15 | 133 | 80 |
| AS2XXS24W | 24 | 84 | 85 |
| AS2XXD05W | ±5 | ±200 | 70 |
| AS2XXD09W | ±9 | ±111 | 75 |
| AS2XXD09W | ±12 | ±84 | 80 |
| AS2XXD15W | ±15 | ±67 | 80 |
| AS2XXD24W | ±24 | ±42 | 85 |

Note:1"XX" Is Input Voltage:05=5Vdc, 09=9Vdc, 12=12Vdc, 15=15Vdc, 24=24Vdc.

2.The input voltage increases, there will be an increase in efficiency

Input Specifications

| Parameters | Conditions | Min | Typ | Max | Units |
|-------------------|------------|-----|-----|-----|-------|
| Voltage Tolerance | Vo,Io Nom | | | ±10 | % |
| Filter | Capacitor | | | | |

Output Specifications

| Parameters | Conditions | Min | Typ | Max | Units |
|---------------------------------|---------------------------------|-----|-----|-------|-------|
| Voltage Tolerance | 100% full load | | | ±5 | % |
| Short Circuit Protection | Short Term | | | 1 Sec | |
| Line Regulation | For 1.0% OF Vin | | 1.2 | | % |
| Load Regulation | 5V(10% To 100% F.L) | | | 15 | % |
| Load Regulation | 9V,12V,15V,24V(10% To 100% F.L) | | | 10 | % |
| Ripple & Noise | BW=DC To 20MHz | | | 100 | mVp-p |
| Transient response setting time | 50% load step change | | 350 | | us |

General Specifications

| Parameters | Conditions | Min | Typ | Max | Units |
|-----------------------|-------------------------|---------|---------------|-----|-------|
| Isolation Resistance | 500Vdc | 1000 | | | MΩ |
| Switching Frequency | Full load,nominal input | | 75 | | KHz |
| Operating Temperature | | -40 | | +85 | °C |
| Humidity | Non Condensing | | | 95 | % |
| Cooling | Free air Convection | | | | |
| Case material | DAP | | | | |
| MTBF | MIL-HDBK-217F@25°C | 3500000 | | | Hours |
| Weight | | | 2.7 | | g |
| Dimensions | | | 19.5x7.1x10.0 | | mm |

ООО Компания "Элемент"

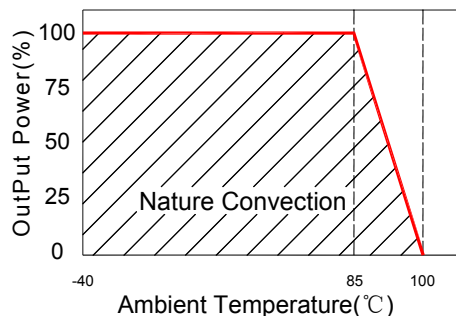
г.Новосибирск, ул.Некрасова д.50 оф.902

www.astra-power.ru

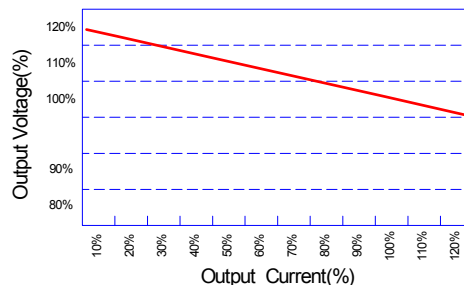
тел. (383)233-77-25, 233-77-26

моб.тел. 8-913-95-95-400

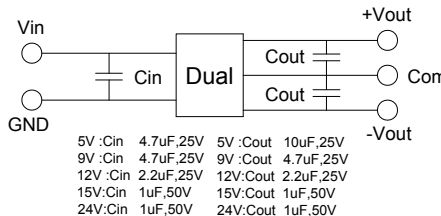
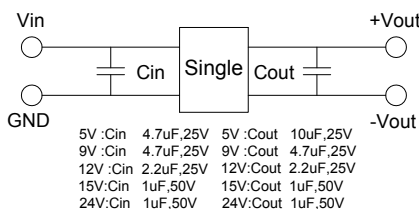
Temperature Derating Graph



Tolerance Envelope Graph



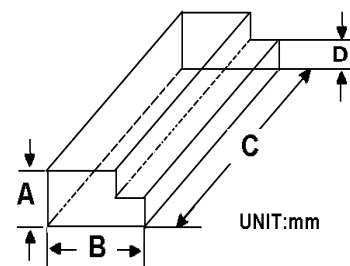
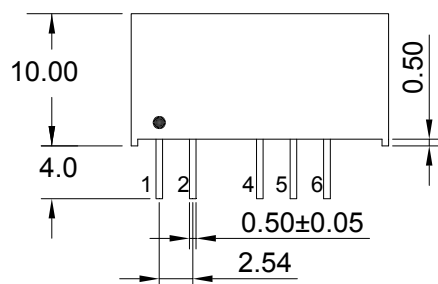
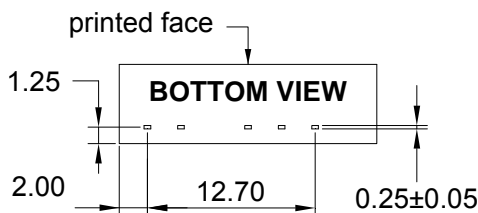
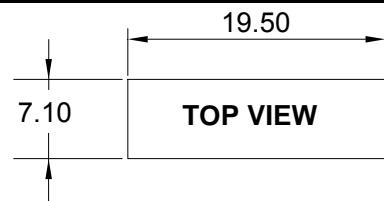
Recommended Test Circuit



AS2 - 05 D 05 W
1 2 3 4 5

- 1:Series
- 2:Input Voltage
- 3:(D) Dual (S) Single Output
- 4.Output voltage
- 5:Case

Markings and Dimensions



| Size(mm) | | | |
|----------|-------|-----|------|
| A | B | C | D |
| 9.50 | 16.50 | 522 | 5.00 |

UNIT:mm Unless otherwise specified,all tolerances are ±0.25

PIN Connection

| 7PIN | 1 | 2 | 4 | 5 | 6 |
|--------|------|------|-------|--------|-------|
| Single | +Vin | -Vin | -Vout | NO PIN | +Vout |
| Dual | +Vin | -Vin | -Vout | Com | +Vout |