

13D-2W – SERIES

1000 VDC SINGLE OUTPUT 2 WATT DC-DC CONVERTER

FEATURES

- 14 pin SIP package
- 1000VDC isolation
- Unregulated output types.
- UL 94V-0 package material.
- Wind Temperature Performance at full 2 WATT load -40°C to 85°C



GENERAL SPECIFICATIONS

| | |
|-----------------------|----------------------|
| Isolation resistance | : 1000MΩ Min @500VDC |
| Switching frequency | : 90KHz TYP. |
| Operating temperature | : -40°C to 85°C |
| Isolation voltage | : 1000 VDC |
| Ripple and noise | : 200 mVp-p MAX |

ELECTRICAL SPECIFICATIONS

| | |
|------------------------------------|-------------------|
| Input voltage range | : ±10% |
| Output voltage tolerance | : ±5% |
| Line regulation (10% to 100% F.L.) | : ±1.2%/1% of Vin |
| Load regulation (10% to 100% F.L.) | |
| 5V and 15V Output types | : 15% Max |
| 9V and 12V Output types | : 10% Max |

| Part Number. | Nominal Input Voltage (V) | Output Voltage (V) | Output Current (mA) | Ripple And Noise (mVp-p) | Input Current At Rated Load (mA) | Efficiency (%) | Isolation Capacitance (pF) |
|--------------|---------------------------|--------------------|---------------------|--------------------------|----------------------------------|----------------|----------------------------|
| 13D-05S05N2W | 5 | 5 | 400 | 96 | 513 | 78 | 19 |
| 13D-05S09N2W | 5 | 9 | 222 | 67 | 492 | 81 | 27 |
| 13D-05S12N2W | 5 | 12 | 167 | 59 | 479 | 84 | 32 |
| 13D-05S15N2W | 5 | 15 | 133 | 53 | 481 | 83 | 27 |
| 13D-12S05N2W | 12 | 5 | 400 | 76 | 207 | 81 | 28 |
| 13D-12S09N2W | 12 | 9 | 222 | 63 | 198 | 84 | 42 |
| 13D-12S12N2W | 12 | 12 | 167 | 53 | 197 | 85 | 46 |
| 13D-12S15N2W | 12 | 15 | 133 | 45 | 197 | 85 | 54 |

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

PIN CONNECTION

| PIN | SINGLE OUTPUT |
|-----|---------------|
| 1 | -INPUT |
| 2 | +INPUT |
| 3 | -OUTPUT |
| 4 | +OUTPUT |

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MARKING AND DIMENSION

Dimensions: inches/mm unless otherwise specified, all tolerances are $\pm 0.05/\pm 0.13$

