



12D SERIES

3000VDC SINGLE AND DUAL OUTPUT DC-DC CONVERTER
1 WATT DC-DC CONVERTER

FEATURES

- 7 PIN SIP PACKAGE.
- 3000VDC ISOLATION.
- UNREGULATED OUTPUT TYPES.
- UL 94V-0 PACKAGE MATERIAL.



GENERAL SPECIFICATIONS

- OUTPUT RIPPPL(20MHz Band limited) : 150mVp-p MAX
- ISOLATION RESISTANCE : 1000M MIN @500VDC
- SWITHINGFREQUENCY : 100KHz TYP.
- OPERATING TEMPERATURE : 0 TO 70
- EFFICIENCY : 70% TYP
- ISOLATION VOLTAGE : 3000 VDC

ELECTRICAL SPECIFICATIONS

- INPUT VOLTAGE RANGE : $\pm 5\%$
- OUTPUT VOLTAGE TOLERANCE : $\pm 5\%$
- LINE REGULATION(10% TO 100% F.L.) : 1.2%/1% OF V_{in}
- LOAD REGULATION(10% TO 100% F.L.) : 1.2%/1% OF V_{in}
- 5V OUTPUT TYPES : 15% MAX
- 9V,12V AND 15V OUTPUT TYPES : 10% MAX

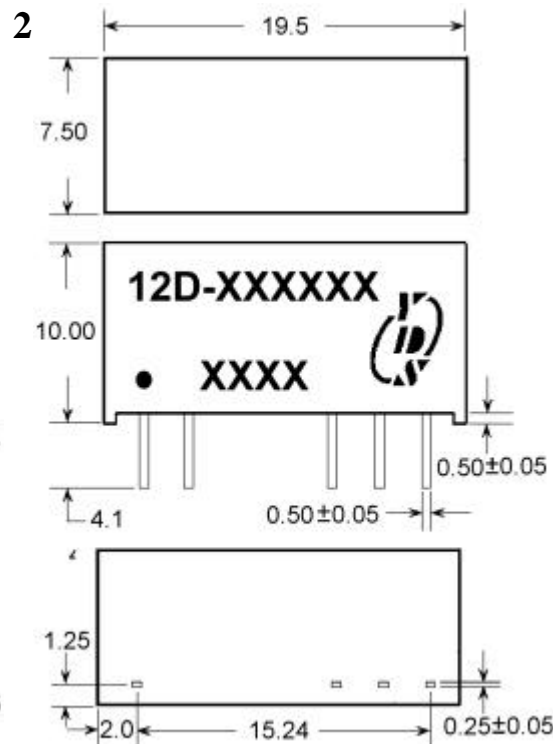
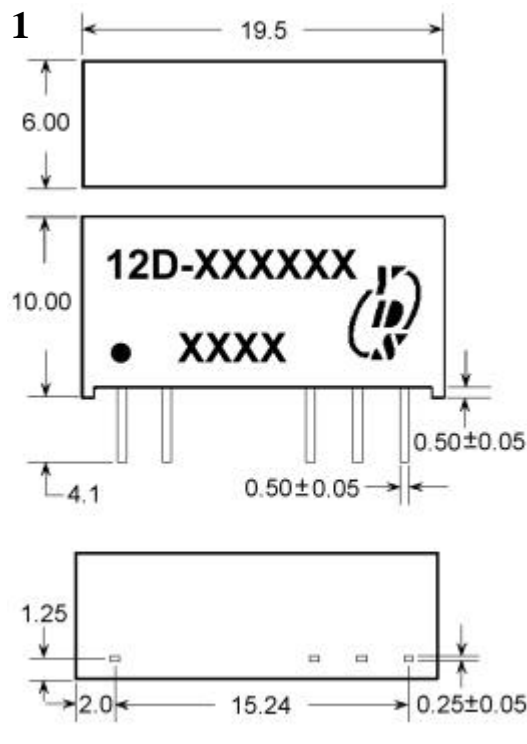
5V,12V AND 24V INPUT TYPES

| PART NUMBER | OUTPUT VOLTAGE (VDC) | OUTPUT CURRENT (mA) | EFFICIENCY (% TYP.) | PACKAGE STYLE |
|-------------|----------------------|---------------------|---------------------|---------------|
| 12D-XXS05N | 5 | 200 | 70 | 1 |
| 12D-XXS09N | 9 | 112 | 75 | 1 |
| 12D-XXS12N | 12 | 84 | 75 | 1 |
| 12D-XXS15N | 15 | 67 | 75 | 1 |
| 12D-XXD05N | ± 5 | ± 100 | 70 | 1 |
| 12D-XXD09N | ± 9 | ± 56 | 75 | 1 |
| 12D-XXD12N | ± 12 | ± 42 | 75 | 1 |
| 12D-XXD15N | ± 15 | ± 34 | 75 | 1 |

48V INPUT TYPES

| PART NUMBER | OUTPUT VOLTAGE (VDC) | OUTPUT CURRENT (mA) | EFFICIENCY (% TYP.) | PACKAGE STYLE |
|-------------|----------------------|---------------------|---------------------|---------------|
| 12D-XXS05N2 | 5 | 200 | 70 | 2 |
| 12D-XXS09N2 | 9 | 112 | 75 | 2 |
| 12D-XXS12N2 | 12 | 84 | 75 | 2 |
| 12D-XXS15N2 | 15 | 67 | 75 | 2 |
| 12D-XXD05N2 | ± 5 | ± 100 | 70 | 2 |
| 12D-XXD09N2 | ± 9 | ± 56 | 75 | 2 |
| 12D-XXD12N2 | ± 12 | ± 42 | 75 | 2 |
| 12D-XXD15N2 | ± 15 | ± 34 | 75 | 2 |

MARKINGS AND DIMENSIONS



PIN CONNECTION

| PIN | SINGLE | DUAL |
|-----|---------|---------|
| 1 | +INPUT | +INPUT |
| 2 | -INPUT | -INPUT |
| 5 | -OUTPUT | -OUTPUT |
| 6 | NO PIN | COMMON |
| 7 | +OUTPUT | +OUTPUT |

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

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