



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
- SWITHING FREQUENCY : 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

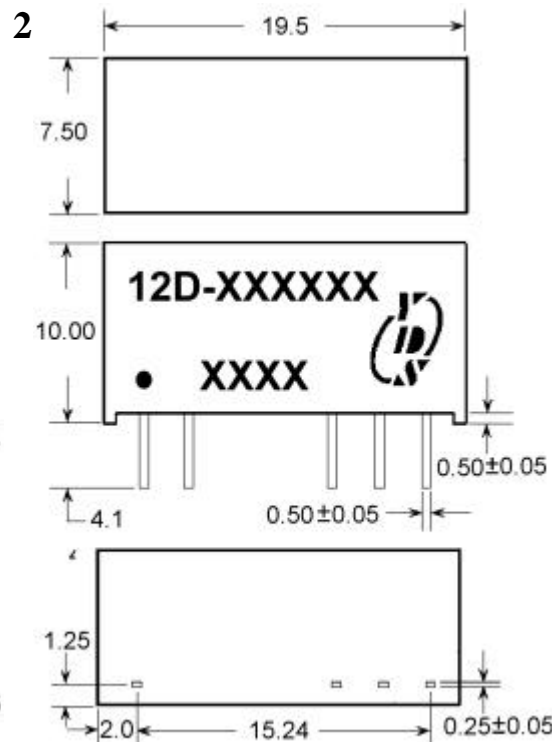
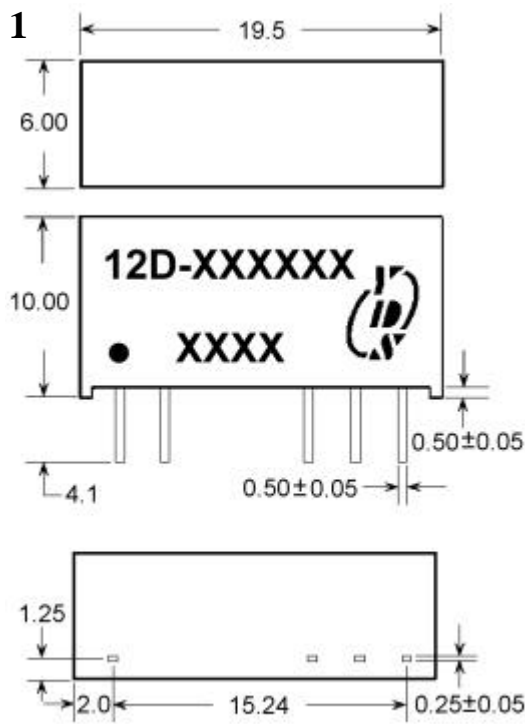
5V,12V AND 24V INPUT TYPES

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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