

13DS – SERIES

1000 VDC 1WATT SINGLE OUTPUT SURFACE MOUNT DC-DC CONVERTER

FEATURES

- 14 pin SMD package.
- 1000VDC isolation.
- Unregulated output types.
- UL 94V-0 package material.



GENERAL SPECIFICATIONS

Output ripple (20MHz Band limited)

5V Output types	: 100mVp-p Max
9V Output types	: 150mVp-p Max
12V Output types	: 180mVp-p Max
15V Output types	: 190mVp-p Max
Isolation resistance	: 1000MΩ Min @500VDC
Switching frequency	: 100KHz TYP.
Operating temperature	: 0°C to 70°C
Efficiency	: 70% TYP

ELECTRICAL SPECIFICATIONS

Input voltage range	: ±5%
Output voltage tolerance	: ±5%
Load voltage regulation	
5V output types	: 12% Typical 14% Max
9V,12V and 15V output types	: 8.5% Max
Line voltage regulation	: 1.2%/1% of V _{IN} Max
(10% to 100% full load)	

Part Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Efficiency (% TYP.)
13DS-05S05N	5	5	200	70
13DS-05S09N	5	9	110	75
13DS-05S12N	5	12	84	75
13DS-05S15N	5	15	67	75
13DS-12S05N	12	5	200	70
13DS-12S09N	12	9	110	75
13DS-12S12N	12	12	84	75
13DS-12S15N	12	15	67	75

PIN CONNECTION

PIN	SINGLE OUTPUT
1	-INPUT
3	+INPUT
7	-OUTPUT
8	+OUTPUT
14	NC

13DS – SERIES

1000 VDC 1WATT SINGLE OUTPUT SURFACE MOUNT DC-DC CONVERTER

MARKING AND DIMENSION

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

13DS

