FEATURES :

- 7PIN SIP Package
- High Efficiency up to 82%
- Output Continuous Short Circuit Protection
- Unregulated Output Types
- Internal SMD Construction
- Industry Standard Pinout
- Operating Temperature:-40℃ TO +105℃

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

Part Number	Output Voltage	Output Current	Ripple & Noise		Efficiency	Package Style
	Vdc	mA	Typ (mVp-p)	Max (mVp-p)	%TYP	
12DB-05S05N	5	200	60	100	80	1
12DB-05S09N	9	112	60	100	80	1
12DB-05S12N	12	84	60	100	80	1
12DB-05S15N	15	67	60	100	80	1
12DB-12S05N	5	200	60	100	80	1
12DB-12S09N	9	112	60	100	80	1
12DB-12S12N	12	84	60	100	82	1
12DB-12S15N	15	67	60	100	81	1
12DB-15S05N2	5	200	60	100	78	2
12DB-15S09N2	9	112	60	100	79	2
12DB-15S12N2	12	84	60	100	79	2
12DB-15S15N2	15	67	60	100	79	2
12DB-24S05N2	5	200	60	100	77	2
12DB-24S09N2	9	112	60	100	79	2
12DB-24S12N2	12	84	60	100	79	2
12DB-24S15N2	15	67	60	100	79	2
12DB-24S24N2	24	42	60	100	81	2
12DB-05D05N	±5	±100	60	100	80	1
12DB-05D09N	±9	±56	60	100	80	1
12DB-05D12N	±12	±42	60	100	80	1
12DB-05D15N	±15	±34	60	100	80	1
12DB-12D05N	±5	±100	60	100	80	1
12DB-12D09N	±9	±56	60	100	80	1
12DB-12D12N	±12	±42	60	100	82	1
12DB-12D15N	±15	±34	60	100	81	1
12DB-15D05N2	±5	±100	60	100	78	2
12DB-15D09N2	±9	±56	60	100	78	2
12DB-15D12N2	±12	±42	60	100	78	2
12DB-15D15N2	±15	±34	60	100	78	2
12DB-24D05N2	±5	±100	60	100	78	2
12DB-24D09N2	±9	±56	60	100	79	2
12DB-24D12N2	±12	±42	60	100	79	2
12DB-24D15N2	±15	±34	60	100	78	2

Input Specifications

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

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DC-DC Converter

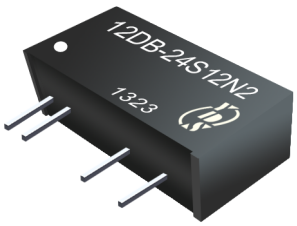
12DB SERIES

1Watt

3KV Isolated

Single & Dual Output

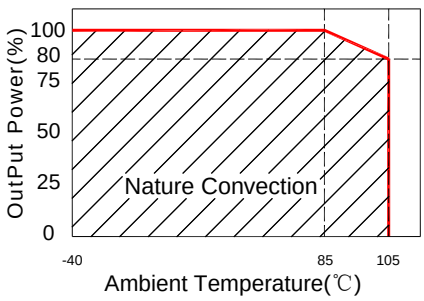
SIP7



RoHS COMPLIANT

3 YEARS WARRANTY

Temperature Derating Graph



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Rev:o 2017/5/5

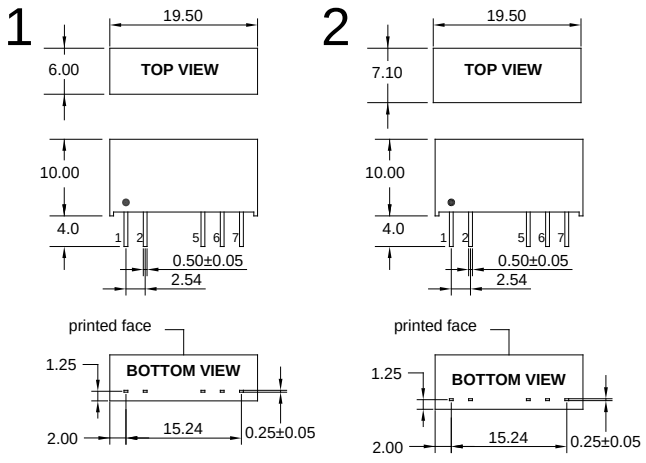
Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance	100% full load			±5	%
Short Circuit Protection	Continuous				
Line Regulation	For 1.0% OF Vin		1.2		%
Load Regulation	5V,9V (10% To 100% F.L)			15	%
Load Regulation	12~24V (10% To 100% F.L)			10	%
Load Regulation	±5V,±9V (10% To 100% F.L)			15	%
Load Regulation	±12V~±24V (10% To 100% F.L)			10	%

General Specifications

Parameters	Conditions	Min	Typ	Max	Units
Isolation Resistance	500Vdc	1000			MΩ
Switching Frequency	Full load, nominal input		100		KHz
Operating Temperature		-40		+105	℃
Storage Temperature		-55		+125	℃
Humidity	Non Condensing			95	%
Cooling	Free air Convection				
Case material	DAP				
MTBF	MIL-HDBK-217F @25℃	3500000			Hours
Weight	Package1 or Package2		2.1 or 2.7		g
Dimensions	Package1 or Package2		19.5x6.0x10.0 or 19.5x7.1x10.0		mm

Markings and dimensions



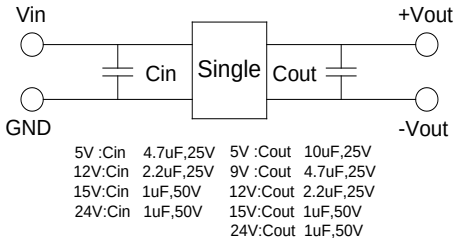
Unit:mm Unless otherwise specified, all tolerances are ±0.25

Part Number

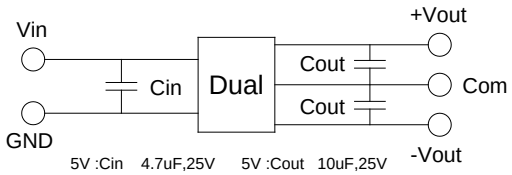
12DB - 05 S 05 N 2
A B C D E F

A:Series
B:Input Voltage
C:Single(S)Dual(D)
D:Output Voltage
E:Unregulated(N)
F:Packge

Recommended Test Circuit

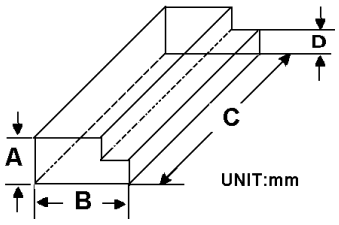


5V :Cin	4.7uF,25V	5V :Cout	10uF,25V
12V:Cin	2.2uF,25V	9V :Cout	4.7uF,25V
15V:Cin	1uF,50V	12V:Cout	2.2uF,25V
24V:Cin	1uF,50V	15V:Cout	1uF,50V
		24V:Cout	1uF,50V



5V :Cin	4.7uF,25V	5V :Cout	10uF,25V
12V:Cin	2.2uF,25V	9V :Cout	4.7uF,25V
15V:Cin	1uF,50V	12V:Cout	2.2uF,25V
24V:Cin	1uF,50V	15V:Cout	1uF,50V

Packaging



Size (mm)			
A	B	C	D
9.50	16.5	522	5.0

PIN Connection

PIN	1	2	5	6	7
Single	+Vin	-Vin	-Vout	No Pin	+Vout
Dual	+Vin	-Vin	-Vout	Com	+Vout

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