



6000Vdc Dual 1W/2W Watt Dc-Dc Converter



FEATURES:

- 6000Vdc Isolation
- 24PIN DIP Package
- UL94V-0 Package Material
- Unregulated Output Types
- Operating Temperature: -40°C To +85°C
- MTBF: >3,500,000 hrs

RoHS
Compliant

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

Part Number	Input Voltage	Output Voltage	Output Current	Efficiency
	Vdc	Vdc	mA	%TYP
18D-05D05NNL	5	±5	±100	70
18D-05D09NNL	5	±9	±56	75
18D-05D12NNL	5	±12	±42	75
18D-05D15NNL	5	±15	±33	75
18D-12D05NNL	12	±5	±100	70
18D-12D09NNL	12	±9	±56	75
18D-12D12NNL	12	±12	±42	80
18D-12D15NNL	12	±15	±33	80
18D-05D05N2WNL	5	±5	±200	75
18D-05D09N2WNL	5	±9	±111	80
18D-05D12N2WNL	5	±12	±84	80
18D-05D15N2WNL	5	±15	±67	80
18D-12D05N2WNL	12	±5	±200	75
18D-12D09N2WNL	12	±9	±111	80
18D-12D12N2WNL	12	±12	±84	85
18D-12D15N2WNL	12	±15	±67	85

Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Voltage Types				±10	%
Filter	Capacitor				

Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance				±5	%
Short Circuit Protection	Continuous				
Ripple & Noise	BW=DC To 20MHz			150	mVp-p
Line Regulation	For 1% of Vin		±1.2		%
Load Regulation	5V (20% To 100% F.L)			±15	%
Load Regulation	9V,12V&15V (20% To 100% F.L)			±10	%
Transient response setting time	50% load step change		350		us

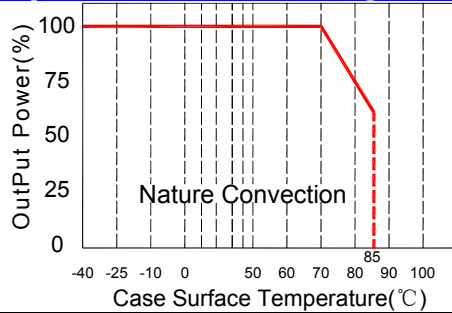
General Specifications

Parameters	Conditions	Min	Typ	Max	Units
Isolation Resistance	500Vdc	1000			MΩ
Switngfrequency			50		KHz
Operating Temperature		-40		+85	°C
Humidity	Non Condensing			95	%
Cooling	Free air Convection				
Case material	DAP				
Weight			9.5		g
Dimensions			32.3x14.72x9.4		mm

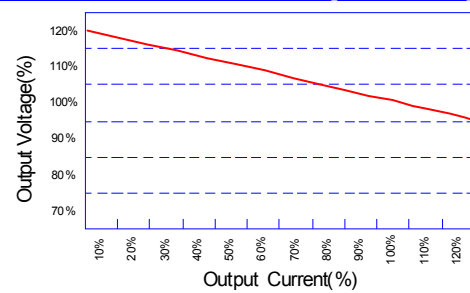


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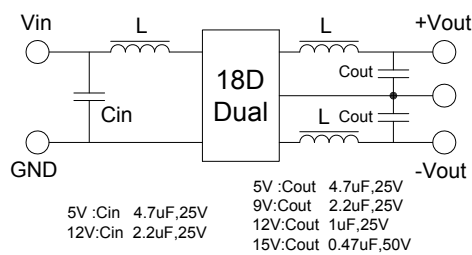
Temperature Derating Graph



Tolerance Envelope Graph



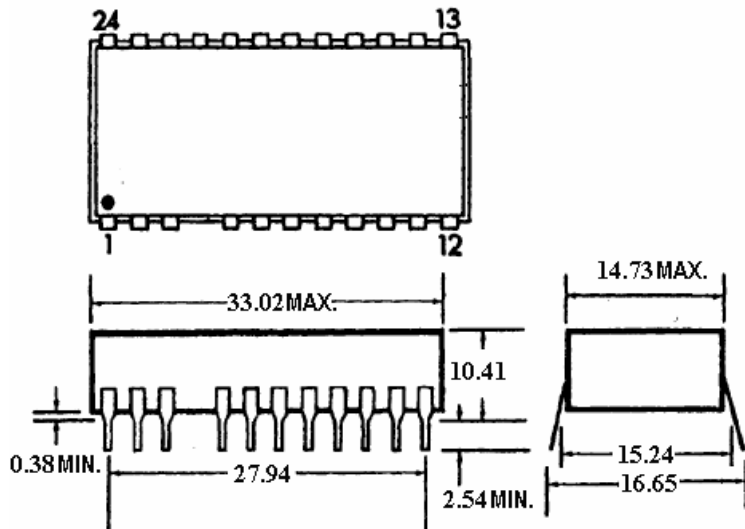
Recommended Test Circuit



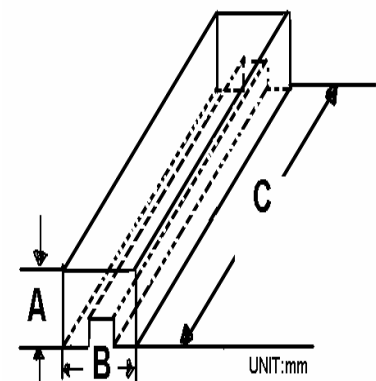
Part Number

18D - 05 D 05 N 2W NL
A B C D E F G
A:Series
B:Input Voltage
C:Dual(D)
D:Output Voltage
E:Unregulated(N)
F:Output Power
G:RoHS Version

Markings and dimensions



Packaging



Size(mm)		
A	B	C
13.23	12.30	530

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

PIN Connection

PIN	1	2	8,17	10,15	12,13
DUAL	+Vin	-Vin	-Vout	Com	+Vout