



Wide Input Voltage Range 8 Watt Dc-Dc Converter



FEATURES:

- 2:1 Wide Input Voltage.
- 8 Watt 24PIN DIL Package.
- Efficiency To 82%
- PI Input Filter.
- 1600Vdc Isolation
- MTBF:>1,500,000 hrs
- Operating Temperature:-40℃ TO +85℃



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

Part Number	Input Voltage Vdc	Output Voltage Vdc	Output Current mA	Input current		Efficiency %TYP
				NO LOAD mA	FULL LOAD mA	
68D8-12S03RNL	9-18	3.3	2000	-	679	80
68D8-12S05RNL	9-18	5	1500	-	762	80
68D8-12S12RNL	9-18	12	666	-	774	85
68D8-12S15RNL	9-18	15	533	-	803	80
68D8-12D05RNL	9-18	±5	±800	-	803	80
68D8-12D12RNL	9-18	±12	±333	-	793	85
68D8-12D15RNL	9-18	±15	±267	-	795	85
68D8-24S03RNL	18-36	3.3	2000	-	344	80
68D8-24S05RNL	18-36	5	1500	-	372	85
68D8-24S12RNL	18-36	12	666	-	401	80
68D8-24S15RNL	18-36	15	533	-	401	80
68D8-24D05RNL	18-36	±5	±800	-	402	80
68D8-24D12RNL	18-36	±12	±333	-	392	85
68D8-24D15RNL	18-36	±15	±267	-	393	85
68D8-48S03RNL	36-72	3.3	2000	-	172	80
68D8-48S05RNL	36-72	5	1500	-	188	80
68D8-48S12RNL	36-72	12	666	-	198	85
68D8-48S15RNL	36-72	15	533	-	198	85
68D8-48D05RNL	36-72	±5	±800	-	198	85
68D8-48D12RNL	36-72	±12	±333	-	196	85

Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Voltage Types				2:1	
Filter	Capacitor				

Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance				±2	%
Short Circuit Protection	Continuous				
Line Regulation				±0.5	%
Load Regulation	Single (F.L To 10% Load)			±0.5	%
Load Regulation	Dual (F.L To 1/4 Load)			±1.0	%
Ripple & Noise	BW=DC To 20MHz			100	mVp-p
Transient response setting time	50% load step change		350		us

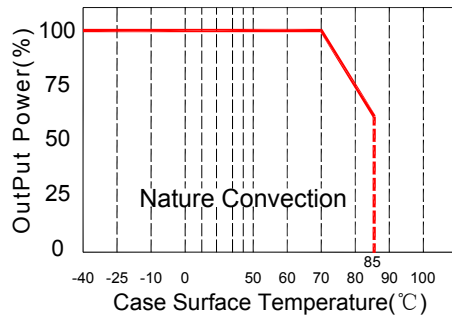
General Specifications

Parameters	Conditions	Min	Typ	Max	Units
Isolation Resistance	500Vdc	1000			MΩ
Switcingfrequency			300		KHz
Operating Temperature		-40		85	℃
Humidity	Non Condensing			95	%
Cooling	Free air Convection				
Case material	Black Coated Copper With Non-Conductive Base				
Weight			16.2		g
Dimensions			31.80x20.60x10.55		mm

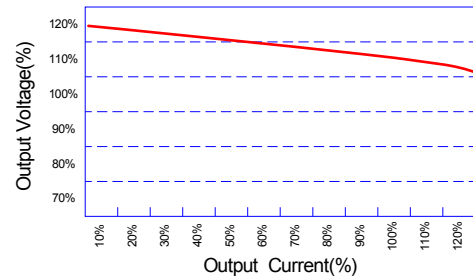


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Temperature Derating Graph



Tolerance Envelope Graph

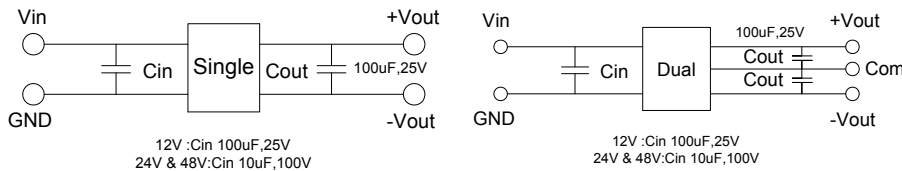


Recommended Test Circuit

Part Number

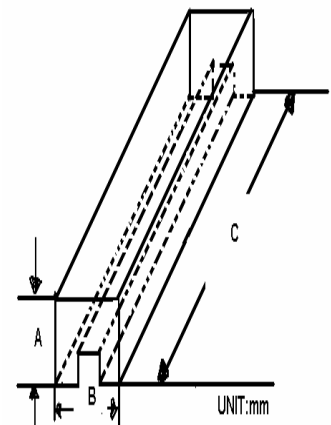
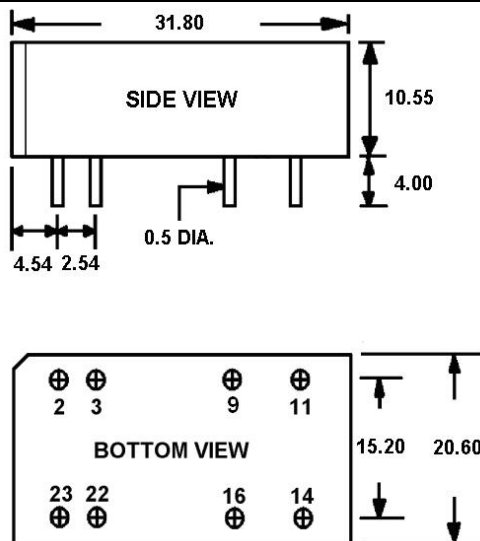
68D8 - 12 S 03 R NL
A B C D E F

A:Series
B:Input Voltage
C:Single(S)Dual(D)
D:Output Voltage
E:Regulated(R)
F:RoHS Version



Markings and dimensions

Packaging



SIZE(mm)		
A	B	C
18.71	23.00	522

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

PIN Connection

PIN	2.3	9	11	14	16	22.23
SINGLE	-Vin	NC	NC	+Vout	-Vout	+Vin
DUAL	-Vin	COM	-Vout	+Vout	COM	+Vin