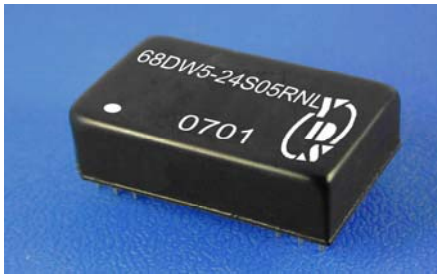




## Wide Input Voltage Range 5-6 Watt Dc-Dc Converter



### FEATURES:

- 4:1 Wide Input Voltage.
- 5-6 Watt 24PIN DIL Package.
- Efficiency To 80%
- PI Input Filter.
- 1500Vdc Isolation
- MTBF:>1,500,000 hrs
- Operating Temperature:-40°C TO +85°C



### 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	
68DW5-24S03RNL	9-36	3.3	1000	7.5	195	70
68DW5-24S05RNL	9-36	5	1000	7.5	265	75
68DW5-24S12RNL	9-36	12	470	7.5	285	80
68DW5-24S15RNL	9-36	15	400	7.5	305	80
68DW5-24D05RNL	9-36	±5	±500	12	265	75
68DW5-24D12RNL	9-36	±12	±230	12	285	80
68DW5-24D15RNL	9-36	±15	±190	12	295	80
68DW5-48S03RNL	18-72	3.3	1000	5	98	70
68DW5-48S05RNL	18-72	5	1000	5	133	75
68DW5-48S12RNL	18-72	12	470	5	145	80
68DW5-48S15RNL	18-72	15	400	5	154	80
68DW5-48D05RNL	18-72	±5	±500	7.5	265	75
68DW5-48D12RNL	18-72	±12	±230	7.5	142	80
68DW5-48D15RNL	18-72	±15	±200	7.5	156	80

### Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
<b>Voltage Types</b>				4:1	
<b>Filter</b>	PI Input				

### Output Specifications

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

### General Specifications

Parameters	Conditions	Min	Typ	Max	Units
<b>Isolation Resistance</b>	500Vdc	1000			MΩ
<b>Switching Frequency</b>			200		KHz
<b>Operating Temperature</b>		-40		85	°C
<b>Humidity</b>	Non Condensing			95	%
<b>Cooling</b>	Free air Convection				
<b>Case material</b>	Nickel Coated With Non-Conductive Base or Black Coated Copper With Non-Conductive Base				
<b>Weight</b>			16.2		g
<b>Dimensions</b>			31.80x20.60x10.16		mm

**Wide Input Voltage Range 5-6 Watt Dc-Dc Converter**

Temperature Derating Graph	Part Number
	<p>68DW5 - <u>24</u> <u>S</u> <u>05</u> <u>R</u> <u>NL</u>                      A      B    C    D    E    F</p> <p>A:Series                      B:Input Voltage                      C:Single Output                      D:Output Voltage                      E:Regulated(R)                      F:RoHS Version</p>

Recommended Test Circuit	
<p style="text-align: center;">24&amp;48V:Cin 10uF:100uF</p>	<p style="text-align: center;">24V &amp; 48V:Cin 10uF,100V</p>

Markings and dimensions	Packaging									
	<table border="1" style="margin: 10px auto;"> <thead> <tr> <th colspan="3">SIZE(mm)</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>18.71</td> <td>23.00</td> <td>522</td> </tr> </tbody> </table>	SIZE(mm)			A	B	C	18.71	23.00	522
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	NO PIN	NC	+Vout	-Vout	+Vin
DUAL	-Vin	COM	-Vout	+Vout	COM	+Vin