



Wide Input Voltage Range 5 Watt Dc-Dc Converter



FEATURES:

- 2:1 Wide Input Voltage.
- Recognized By UL 60950-1
- 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	Output Voltage	Output Current	Efficiency
	Vdc	Vdc	mA	%TYP
66D-12S05RNL	9-18	5	1000	75
66D-12S12RNL	9-18	12	470	80
66D-12S15RNL	9-18	15	400	80
66D-12D12RNL	9-18	±12	±230	80
66D-12D15RNL	9-18	±15	±190	80
66D-24S05RNL	18-36	5	1000	75
66D-24S12RNL	18-36	12	470	80
66D-24S15RNL	18-36	15	400	80
66D-24D12RNL	18-36	±12	±230	80
66D-24D15RNL	18-36	±15	±190	80
66D-48S05RNL	36-72	5	1000	80
66D-48S12RNL	36-72	12	470	80
66D-48S15RNL	36-72	15	400	80
66D-48D12RNL	36-72	±12	±230	80
66D-48D15RNL	36-72	±15	±190	80

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			±0.5	%
Load Regulation	DUAL			±2.0	%
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
Switching Frequency			200		KHz
Operating Temperature		-40		85	°C
Humidity	Non Condensing			95	%
Cooling	Free air Convection				
Case material	Nickel Coated With Non-Conductive Base or Black Coated Copper With Non-Conductive Base				
Weight			36.5		g
Dimensions			50.8x25.4x10.2		mm



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Temperature Derating Graph	Part Number
	<p>66D - <u>12</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(S)Dual(D) D:Output Voltage E:Regulated(R) F:RoHS Version</p>

Recommended Test Circuit	
<p style="text-align: center;">12V :Cin 100uF,25V 24V&48V:Cin 10uF,100V</p>	<p style="text-align: center;">12V :Cin 100uF,25V 24V & 48V :Cin 10uF,100V</p>

Markings and Dimensions	Packaging									
	<table border="1" style="margin-top: 10px; text-align: center;"> <thead> <tr> <th colspan="3">Size(mm)</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>210.00</td> <td>210.00</td> <td>30.00</td> </tr> </tbody> </table>	Size(mm)			A	B	C	210.00	210.00	30.00
Size(mm)										
A	B	C								
210.00	210.00	30.00								

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

PIN Connection					
PIN	1	2	3	4	5
SINGLE	+Vin	-Vin	+Vout	NO PIN	-Vout
DUAL	+Vin	-Vin	+Vout	COM	-Vout