

**FEATURES :**

- 2:1 Wide Input Voltage
- 5-6 Watt 24PIN DIL Package
- Efficiency to 80%
- 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	Input Current		Efficiency
				No Load	Full Load	
				Vdc	Vdc	
68D5-12S03CN	9-18	3.3	1000	7.5	405	70
68D5-12S05CN	9-18	5	1000	7.5	545	75
68D5-12S12CN	9-18	12	470	7.5	585	80
68D5-12S15CN	9-18	15	400	7.5	625	80
68D5-12D05CN	9-18	±5	±500	12	545	75
68D5-12D12CN	9-18	±12	±230	12	575	80
68D5-12D15CN	9-18	±15	±190	12	590	80
68D5-24S03CN	18-36	3.3	1000	5	195	70
68D5-24S05CN	18-36	5	1000	5	265	78
68D5-24S12CN	18-36	12	470	5	285	80
68D5-24S15CN	18-36	15	400	5	305	80
68D5-24D05CN	18-36	±5	±500	7.5	265	80
68D5-24D12CN	18-36	±12	±230	7.5	285	80
68D5-24D15CN	18-36	±15	±190	7.5	295	80
68D5-48S03CN	36-72	3.3	1000	2	98	70
68D5-48S05CN	36-72	5	1000	2	133	80
68D5-48S12CN	36-72	12	470	2	145	80
68D5-48S15CN	36-72	15	400	2	154	80
68D5-48D05CN	36-72	±5	±500	3	265	80
68D5-48D12CN	36-72	±12	±230	3	142	80

**Input Specifications**

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



DC-DC Converter

**68D5 SERIES**

5-6Watt 1.5KV Isolated

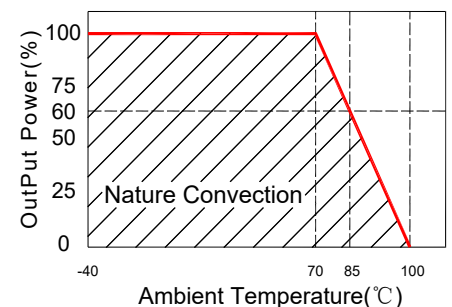
2 : 1 Input Voltage Range

Single & Dual Output

1.25" x 0.8"



**Temperature Derating Graph**



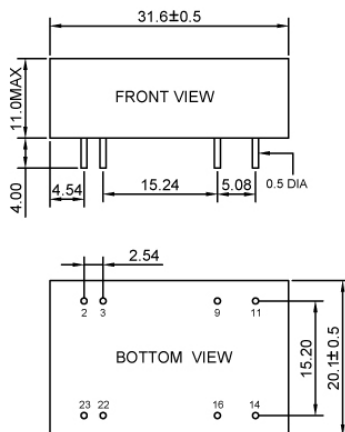
Output Specifications

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
Switching Frequency			200		KHz
Operating Temperature		-40		85	°C
Humidity	Non Condensing			95	%
Cooling	Free air Convection				
Case material	Nickel Coated Copper with Non-Conductive Base				
Weight			16.2		g
Dimensions		31.60x20.10x11.0			mm

Markings and Dimensions



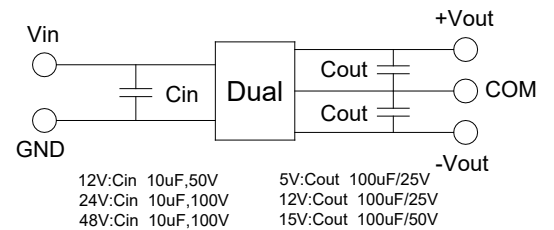
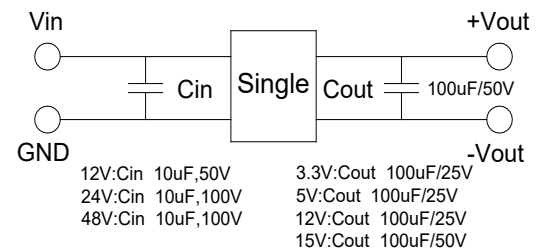
UNIT : mm Unless otherwise specified, all tolerances are ±0.25

Part Number

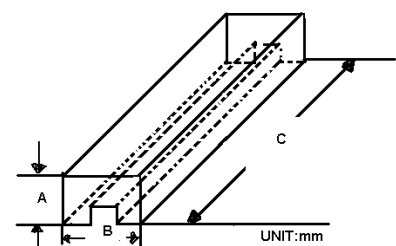
68D5 - 05 S 05 C N  
A B C D E F

- A : Series
- B : Input Voltage
- C : Single(S);Dual(D)
- D : Output Voltage
- E : Types(C)
- F : Package

Recommended Test Circuit



Packaging



SIZE(mm)		
A	B	C
18.71	23.00	52.2

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