



Wide Input Voltage Range 3 Watt Dc-Dc Converter



FEATURES:

- 2:1 Wide Input Voltage.
- 3 Watt 5PIN DIL Package.
- Efficiency To 85%
- 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
76D-05S05C	4.5-9	5	600	75
76D-05S12C	4.5-9	12	250	77
76D-05S15C	4.5-9	15	200	77
76D-12S05C	9-18	5	600	75
76D-12S12C	9-18	12	250	80
76D-12S15C	9-18	15	200	80
76D-12D05C	9-18	±5	±300	75
76D-12D12C	9-18	±12	±125	82
76D-12D15C	9-18	±15	±100	82
76D-24S05C	18-36	5	600	75
76D-24S12C	18-36	12	250	85
76D-24S15C	18-36	15	200	85
76D-24D05C	18-36	±5	±300	75
76D-24D12C	18-36	±12	±125	85
76D-24D15C	18-36	±15	±100	85
76D-48S05C	36-75	5	600	78
76D-48S12C	36-75	12	250	85
76D-48S15C	36-75	15	200	85
76D-48D05C	36-75	±5	±300	75
76D-48D12C	36-75	±12	±125	85
76D-48D15C	36-75	±15	±100	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)			±0.8	%
Load Regulation	Dual (F.L To 10% Load)			±1.0	%
Ripple & Noise	BW=DC To 20MHz			100	mVp-p
Transient response setting time	50% load step change		350		us

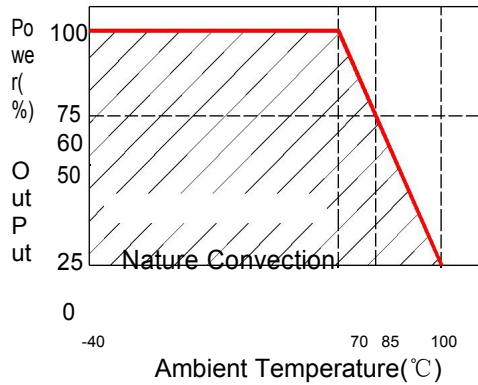
General Specifications

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			15.0		g
Dimensions			25.25x25.25x10.1		mm



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Temperature Derating Graph



Part Number

76D - 12 D 05 C

A B C D E

A:Series

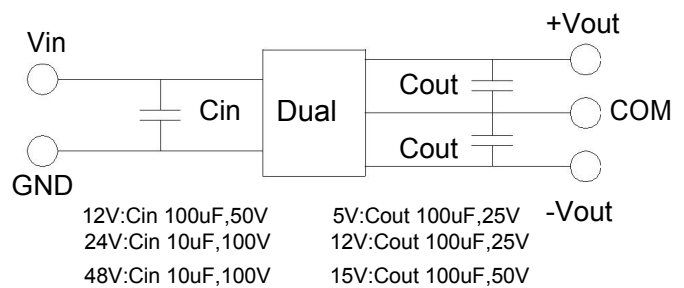
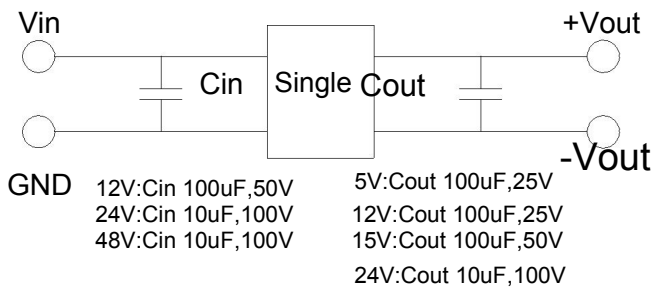
B:Input Voltage

C:Dual Output

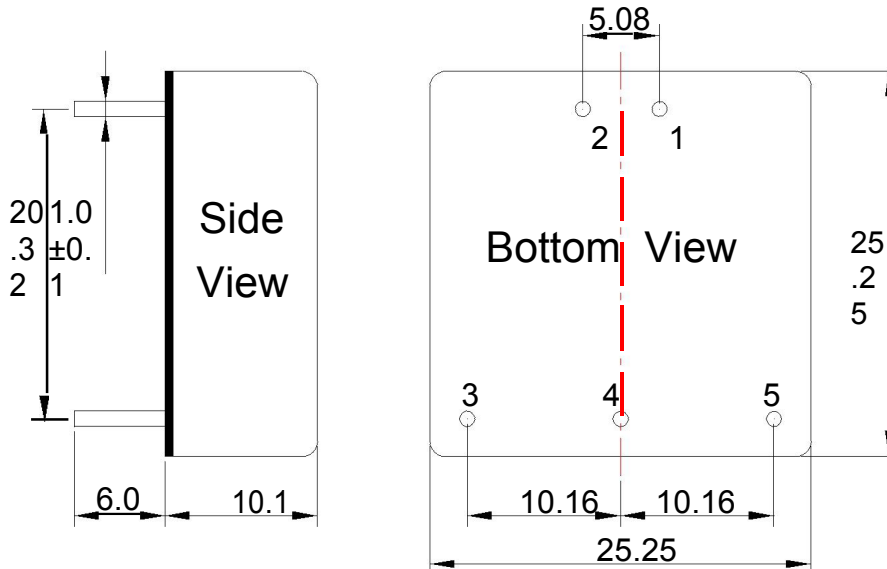
D:Output Voltage

E:Types

Recommended Test Circuit



Markings and dimensions



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