Single Output





Size: 0.45in x 0.33in x 0.69in (11.5mm x 8.5mm x 17.5mm)

FEATURES

- 3 Pin SIP Package
- Pin-Out Compatible with LM78XX Linears
- High Efficiency Up to 96%
- Non-Isolated Converter
- Short Circuit Protection
- UL94V-0 Package Material
- RoHS Compliant
- Wide Input Voltage Ranges from 4.75~36VDC

DESCRIPTION

The DCDA1 series of non-isolated DC/DC converters offers 2A of output current in an ultra-compact 0.45" x 0.33" x 0.69" 3-Pin SIP package. This series consists of single output models with wide input voltage ranges from 4.75~36VDC. Each model in this series has high efficiency, short circuit protection, and is RoHS compliant. Please contact factory for order details.

MODEL SELECTION TABLE									
Model Number	Input Voltage Range	Output Voltage	Output Current	Minimum Vin Efficiency	Maximum Vin Efficiency				
DCDA1-0182	4.75~36VDC	1.8VDC	2A	89%	80%				
DCDA1-0252	4.75~36VDC	2.5VDC	2A	91%	83%				
DCDA1-0332	4.75~36VDC	3.3VDC	2A	90%	86%				
DCDA1-052	6.5~36VDC	5.0VDC	2A	92%	89%				
DCDA1-0652	9.0~36VDC	6.5VDC	2A	93%	91%				
DCDA1-092	12~36VDC	9.0VDC	2A	94%	92%				
DCDA1-122	15~36VDC	12VDC	2A	95%	93%				
DCDA1-152	18~36VDC	15VDC	2A	96%	94%				

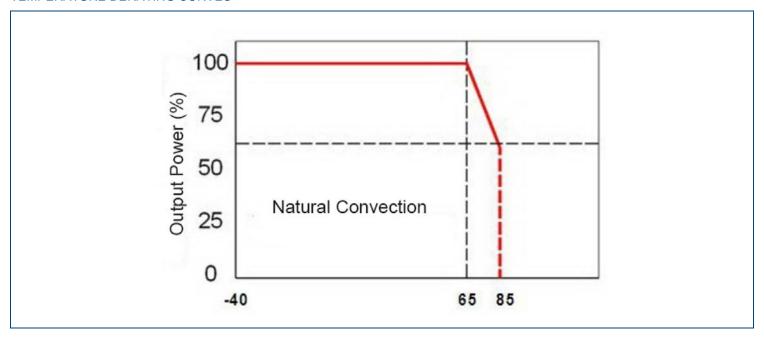
SPECIFICATIONS							
	ns are based on 25°C, Nominal Input Voltage, and Rated Output		erwise noted				
SPECIFICATION	We reserve the right to change specifications based on technol TEST CONDITIONS	logical advances. Min	Тур	Max	Unit		
INPUT SPECIFICATIONS	TEST CONDITIONS	171111	Тур	IVIAA	Offic		
Input Voltage Range	See Table	4.75	24	36	V		
Internal Input Filter	Capacitors	4.70	10	- 00	μ		
No Load Input Current	Vin=24V		15	20	mA		
OUTPUT SPECIFICATIONS	VIII—2-7 V		10	20	111/1		
Output Voltage			See Table				
Voltage Tolerance			±2	±3	%		
Line Regulation	Vin=Min to Max @Full Load		±0.5		%		
Load Regulation	10% to 100% F.L.		±0.5		%		
Current Limit	Duty=40%		325		%		
Capacitive Load	ESR>1mΩ		470	1000	μF		
Output Current				2	A		
Ripple & Noise	Without Output Capacitor, 100% F.L. BW=20MHz			100	mVp-p		
Transient Response Setting Time	50% Load Step Change		350		us		
Temperature Coefficient	-40 to +85°C			0.015	%/°C		
PROTECTION			<u> </u>				
Short Circuit Protection		Ind	Indefinite, Automatic Recovery				
ENVIRONMENTAL SPECIFICATION	IS				- ,		
Operating Temperature	See derating graph.	-40	15	85	°C		
Storage Temperature	3 3 1	-55		125	οС		
Humidity	Non-Condensing			95	%		
Derating	Ŭ.		1.5%/K above +50°C				
Cooling			Free Air Convection				
MTBF	Per MIL-HDBK-217F		167,890		Hours		
GENERAL SPECIFICATIONS							
Efficiency			See Table				
Switching Frequency			500		KHz		
PHYSICAL SPECIFICATIONS							
Weight			0.14oz (4g)				
Dimensions (L x W x H)			0.45in x 0.33in x 0.69in				
,			(11.5mm x 8.5mm x 17.5mm)				
Case Material		No	Non-Conductive Black Plastic				



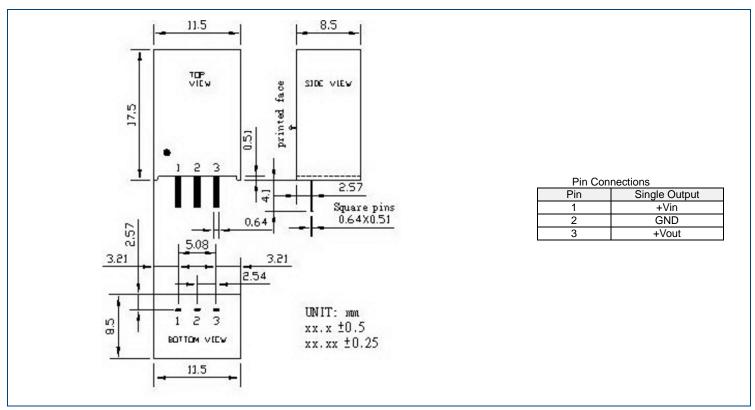
NOTES

*Due to advances in technology, specifications subject to change without notice.

TEMPERATURE DERATING CURVES -



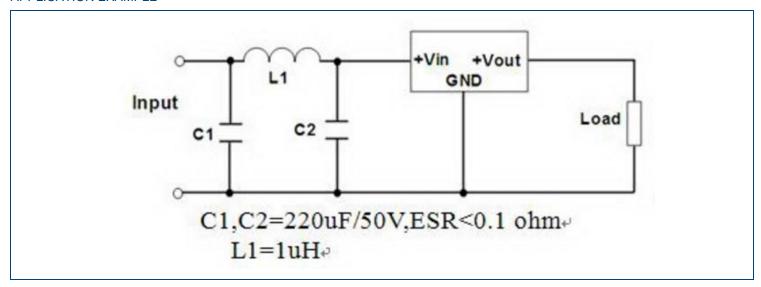
MECHANICAL DRAWINGS



Single Output



APPLICATION EXAMPLE



COMPANY INFORMATION

Wall Industries, Inc. has created custom and modified units for over 50 years. Our in-house research and development engineers will provide a solution that exceeds your performance requirements on-time and on budget. Our ISO9001-2008 certification is just one example of our commitment to producing a high quality, well-documented product for our customers.

Our past projects demonstrate our commitment to you, our customer. Wall Industries, Inc. has a reputation for working closely with its customers to ensure each solution meets or exceeds form, fit and function requirements. We will continue to provide ongoing support for your project above and beyond the design and production phases. Give us a call today to discuss your future projects.

Contact Wall Industries for further information:

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