



FEATURES:

- RoHS Compliant
- High efficiency up to 89%
- Low ripple and noise
- 7 pin SIP package
- Operating temperature -40°C to +85°C
- Pin compatible with multiple manufacturers
- Input / Output Isolation 1000, 3000 VDC
- Non-Conductive Plastic Case



Models

Single output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Max Capacitive Load (uF)	Efficiency (%)
AM2D-0505S-RZ	4.5-5.5	5	400	1000	220	81
AM2D-0509S-RZ	4.5-5.5	9	222	1000	220	85
AM2D-0512S-RZ	4.5-5.5	12	167	1000	100	85
AM2D-0515S-RZ	4.5-5.5	15	134	1000	100	86
AM2D-1205S-RZ	10.8-13.2	5	400	1000	220	84
AM2D-1209S-RZ	10.8-13.2	9	222	1000	220	86
AM2D-1212S-RZ	10.8-13.2	12	167	1000	100	88
AM2D-1215S-RZ	10.8-13.2	15	134	1000	100	88
AM2D-1505S-RZ	13.5-16.5	5	400	1000	220	85
AM2D-1509S-RZ	13.5-16.5	9	222	1000	220	87
AM2D-1512S-RZ	13.5-16.5	12	167	1000	100	87
AM2D-1515S-RZ	13.5-16.5	15	134	1000	100	88
AM2D-2405S-RZ	21.6-26.4	5	400	1000	220	82
AM2D-2409S-RZ	21.6-26.4	9	222	1000	220	84
AM2D-2412S-RZ	21.6-26.4	12	167	1000	100	86
AM2D-2415S-RZ	21.6-26.4	15	134	1000	100	87
AM2D-0505SH30-RZ	4.5-5.5	5	400	3000	220	81
AM2D-0509SH30-RZ	4.5-5.5	9	222	3000	220	85
AM2D-0512SH30-RZ	4.5-5.5	12	167	3000	100	85
AM2D-0515SH30-RZ	4.5-5.5	15	134	3000	100	86
AM2D-1205SH30-RZ	10.8-13.2	5	400	3000	220	84
AM2D-1209SH30-RZ	10.8-13.2	9	222	3000	220	86
AM2D-1212SH30-RZ	10.8-13.2	12	167	3000	100	88
AM2D-1215SH30-RZ	10.8-13.2	15	134	3000	100	88
AM2D-1505SH30-RZ	13.5-16.5	5	400	3000	220	85
AM2D-1509SH30-RZ	13.5-16.5	9	222	3000	220	87
AM2D-1512SH30-RZ	13.5-16.5	12	167	3000	100	87
AM2D-1515SH30-RZ	13.5-16.5	15	134	3000	100	88
AM2D-2405SH30-RZ	21.6-26.4	5	400	3000	220	82
AM2D-2409SH30-RZ	21.6-26.4	9	222	3000	220	84
AM2D-2412SH30-RZ	21.6-26.4	12	167	3000	100	86
AM2D-2415SH30-RZ	21.6-26.4	15	134	3000	100	87

Models

Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Max Capacitive Load (uF)	Efficiency (%)
AM2D-0505D-RZ	4.5-5.5	±5	±200	1000	±100	82
AM2D-0509D-RZ	4.5-5.5	±9	±111	1000	±100	85
AM2D-0512D-RZ	4.5-5.5	±12	±83	1000	±47	86
AM2D-0515D-RZ	4.5-5.5	±15	±67	1000	±47	87
AM2D-1205D-RZ	10.8-13.2	±5	±200	1000	±100	84
AM2D-1209D-RZ	10.8-13.2	±9	±111	1000	±100	88
AM2D-1212D-RZ	10.8-13.2	±12	±83	1000	±47	89
AM2D-1215D-RZ	10.8-13.2	±15	±67	1000	±47	89

Models

Dual output (continued)

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Max Capacitive Load (uF)	Efficiency (%)
AM2D-1505D-RZ	13.5-16.5	±5	±200	1000	±100	85
AM2D-1509D-RZ	13.5-16.5	±9	±111	1000	±100	88
AM2D-1512D-RZ	13.5-16.5	±12	±83	1000	±47	88
AM2D-1515D-RZ	13.5-16.5	±15	±67	1000	±47	88
AM2D-2405D-RZ	21.6-26.4	±5	±200	1000	±100	82
AM2D-2409D-RZ	21.6-26.4	±9	±111	1000	±100	85
AM2D-2412D-RZ	21.6-26.4	±12	±83	1000	±47	86
AM2D-2415D-RZ	21.6-26.4	±15	±67	1000	±47	87
AM2D-0505DH30-RZ	4.5-5.5	±5	±200	3000	±100	82
AM2D-0509DH30-RZ	4.5-5.5	±9	±111	3000	±100	85
AM2D-0512DH30-RZ	4.5-5.5	±12	±83	3000	±47	86
AM2D-0515DH30-RZ	4.5-5.5	±15	±67	3000	±47	87
AM2D-1205DH30-RZ	10.8-13.2	±5	±200	3000	±100	84
AM2D-1209DH30-RZ	10.8-13.2	±9	±111	3000	±100	88
AM2D-1212DH30-RZ	10.8-13.2	±12	±83	3000	±47	89
AM2D-1215DH30-RZ	10.8-13.2	±15	±67	3000	±47	89
AM2D-1505DH30-RZ	13.5-16.5	±5	±200	3000	±100	85
AM2D-1509DH30-RZ	13.5-16.5	±9	±111	3000	±100	88
AM2D-1512DH30-RZ	13.5-16.5	±12	±83	3000	±47	88
AM2D-1515DH30-RZ	13.5-16.5	±15	±67	3000	±47	88
AM2D-2405DH30-RZ	21.6-26.4	±5	±200	3000	±100	82
AM2D-2409DH30-RZ	21.6-26.4	±9	±111	3000	±100	85
AM2D-2412DH30-RZ	21.6-26.4	±12	±83	3000	±47	86
AM2D-2415DH30-RZ	21.6-26.4	±15	±67	3000	±47	87

NOTE: All specifications in this datasheet are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified.

Input Specifications

Parameters	Nominal	Typical	Maximum	Units
Voltage range	5	4.5-5.5		VDC
	12	10.8-13.2		
	15	13.5-16.5		
	24	21.6-26.4		
Filter	Capacitor			
Absolute Maximum Rating	5 Vin		9	VDC
	12 Vin		18	
	15 Vin		20	
	24 Vin		30	
Peak Input Voltage time			100	ms
No Load Input Current		50		mA

Isolation Specifications

Parameters	Conditions	Typical	Maximum	Units
Tested I/O voltage	3 sec		1000, 3000	VDC
Resistance		>1000		MOhm
Capacitance		60		pF

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy		+2, -4		%
Short Circuit protection		Momentary (1sec).		
Line voltage regulation	For 1.0% of Vin	1.2		% of Vin

Output Specifications (continued)

Parameters	Conditions	Typical	Maximum	Units
Load voltage regulation	Load 10~100%	±5		%
Temperature coefficient		±0.02		%/°C
Ripple & Noise	20MHz Bandwidth	50		mV p-p
Minimum Load Current		10		% of Max

General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	70		KHz
Operating temperature		-40 to +85		°C
Storage temperature		-40 to +125		°C
Maximum case temperature			100	°C
Cooling		Free Air Convection		
Humidity			95	% RH
Case material		Plastic UL94V-0		
Weight		2.8		g
Dimensions (L x W x H)		0.76 x 0.28 x 0.39 inch	19.50 x 7.20 x 10.00 mm	
MTBF		>1.9 Mhrs (MIL-HDBK -217F, Ground Benign, t=+25°C)hours		
Maximum soldering temperature	1.5mm from case for 10 sec		260	°C

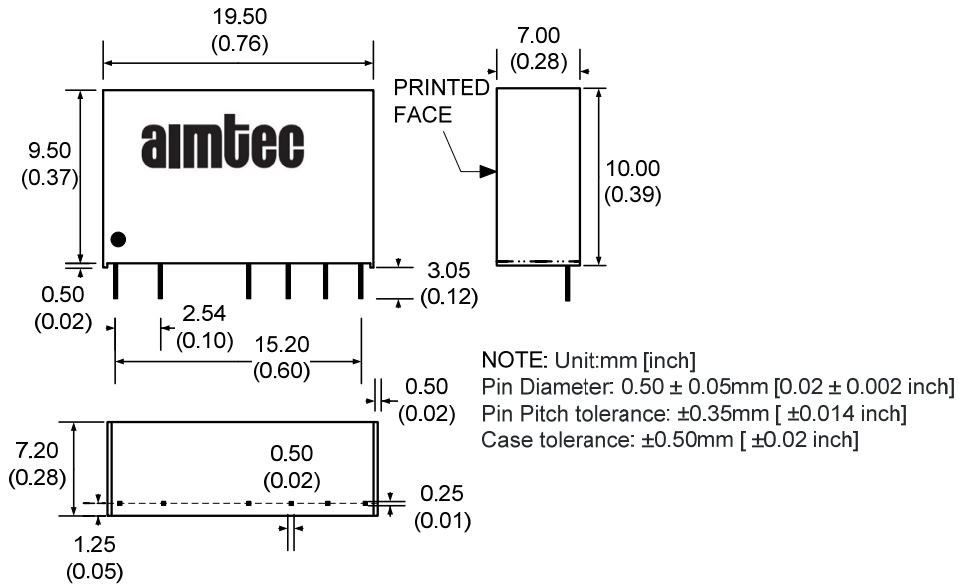
Safety Specifications

Parameters	
Agency Approval	CE
Standards	EN55022: 2006 + A1: 2007, Class B
	EN55024: 1998 + A1: 2001 + A2:2003
	IEC61000-4-2:2008
	IEC61000-4-3: 2006 + A1: 2007
	IEC61000-4-4, 2004
	IEC61000-4-6: 2008
	IEC61000-4-8: 1993 + A1:2000

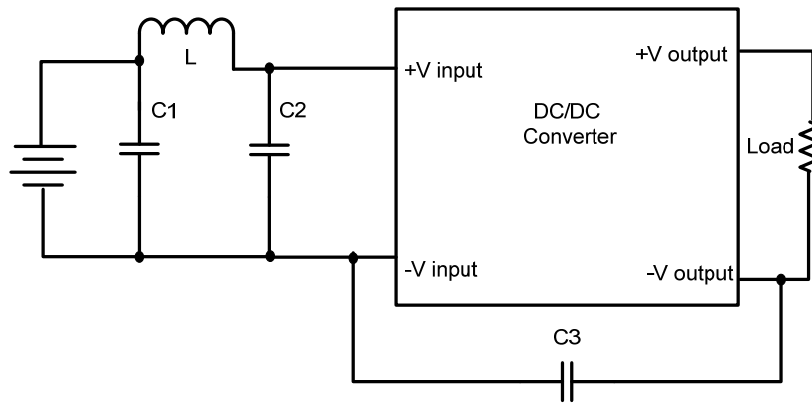
Pin Out Specifications

Pin	1000 VDC		3000 VDC	
	Single	Dual	Single	Dual
1	+ V Input	+ V Input	+ V Input	+ V Input
2	- V Input	- V Input	- V Input	- V Input
4	- V Output	- V Output	No pin	No pin
5	No pin	Common	-V Output	-V Output
6	+ V Output	+ V Output	No pin	Common
7	No pin	No pin	+V Output	+V Output

Dimensions

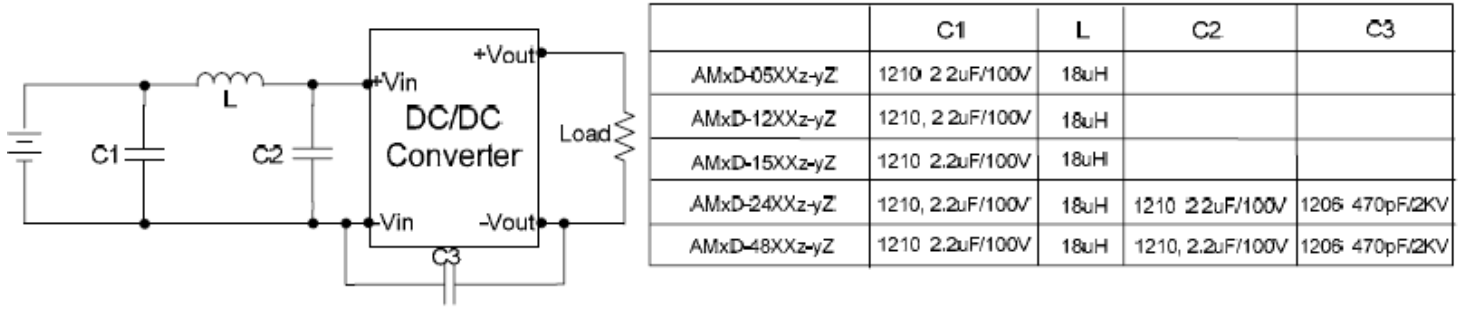


Application Circuit

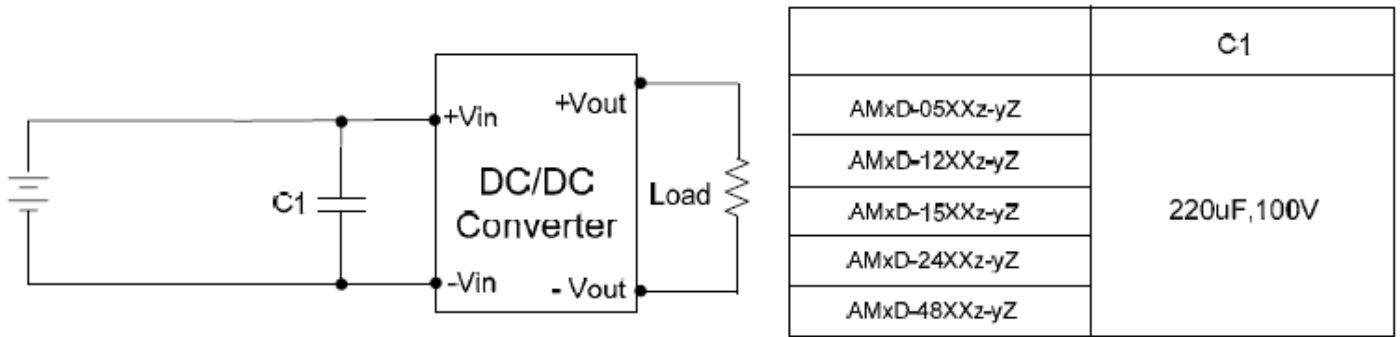


Input Voltage (VDC)	C1	L	C2	C3
5	2.2uF/100V	18uH	N/A	N/A
12	2.2uF/100V	18uH	N/A	N/A
15	2.2uF/100V	18uH	N/A	N/A
24	2.2uF/100V	18uH	2.2uF/100V	470pF/2KV

Conducted Emissions



EFT



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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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