



FEATURES:

- RoHScompliant
- Regulated output voltage
- Low ripple and noise
- High efficiency up to 74%
- Operating temperature -40°C to + 85°C
- Input / Output Isolation 1000& 3000VDC
- Pin computable with multiple manufacturers
- UL94-VO Package



Models

Single output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Input Current Max No Load (mA)	Isolation (VDC)	Efficiency (%)
AM1DR-0503S-NZ	4.75-5.25	3.3	303	333 30	1000	60
AM1DR-0505S-NZ	4.75-5.25	5	200	299 30	1000	67
AM1DR-0509S-NZ	4.75-5.25	9	111	286 30	1000	70
AM1DR-0512S-NZ	4.75-5.25	12	83	282 30	1000	71
AM1DR-0515S-NZ	4.75-5.25	15	67	274 30	1000	72
AM1DR-0524S-NZ	4.75-5.25	24	42	294 30	1000	68
AM1DR-1205S-NZ	11.4-12.6	5	200	124 15	1000	67
AM1DR-1209S-NZ	11.4-12.6	9	111	116 15	1000	72
AM1DR-1212S-NZ	11.4-12.6	12	83	119 15	1000	70
AM1DR-1215S-NZ	11.4-12.6	15	67	113 15	1000	74
AM1DR-1224S-NZ	11.4-12.6	24	42	123 15	1000	68
AM1DR-1505S-NZ	14.25-15.75	5	200	100 15	1000	67
AM1DR-1515S-NZ	14.25-15.75	15	67	93 15	1000	72
AM1DR-2405S-NZ	22.8-25.2	5	200	61 8	1000	68
AM1DR-2409S-NZ	22.8-25.2	9	111	61 8	1000	68
AM1DR-2412S-NZ	22.8-25.2	12	83	57 8	1000	73
AM1DR-2415S-NZ	22.8-25.2	15	67	56 8	1000	75
AM1DR-2424S-NZ	22.8-25.2	24	42	61 8	1000	68
AM1DR-0505SH30-NZ	4.75-5.25	5	200	303 30	3000	66
AM1DR-0512SH30-NZ	4.75-5.25	12	83	278 30	3000	72
AM1DR-0524SH30-NZ	4.75-5.25	24	41	274 30	3000	73
AM1DR-1205SH30-NZ	11.4-12.6	5	200	124 15	3000	67
AM1DR-1212SH30-NZ	11.4-12.6	12	83	114 15	3000	73
AM1DR-1215SH30-NZ	11.4-12.6	15	67	113 15	3000	74
AM1DR-2405SH30-NZ	22.8-25.2	5	200	62 8	3000	67
AM1DR-2412SH30-NZ	22.8-25.2	12	83	57 8	3000	73
AM1DR-2415SH30-NZ	22.8-25.2	15	67	56 8	3000	74

Input Specifications

Parameters	Nominal	Typical	Maximum	Units
Voltage range	5	4.75-5.25		VDC
	12	11.4-12.6		
	15	14.25-15.75		
	24	22.8-25.2		
Filter	Capacitor			

Isolation Specifications

Parameters	Conditions	Typical	Rated	Units
Tested I/O voltage	60 sec, <1mA		1000 & 3000	VDC
Resistance		>1000		MOhm
Capacitance	100KHz/0.1V	60		pF

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy		±3		%
Short Circuit protection	9, 12, 15 Vout,	Continuous		
	5, 24 Vout	Momentary (1sec)		
Line voltage regulation	Input voltage: ±5%	±0.25		%
Load voltage regulation	10-100%	±1	±2	%
Temperature coefficient		±0.03		%/°C
Ripple & Noise		50	100	mVp-p

General Specifications

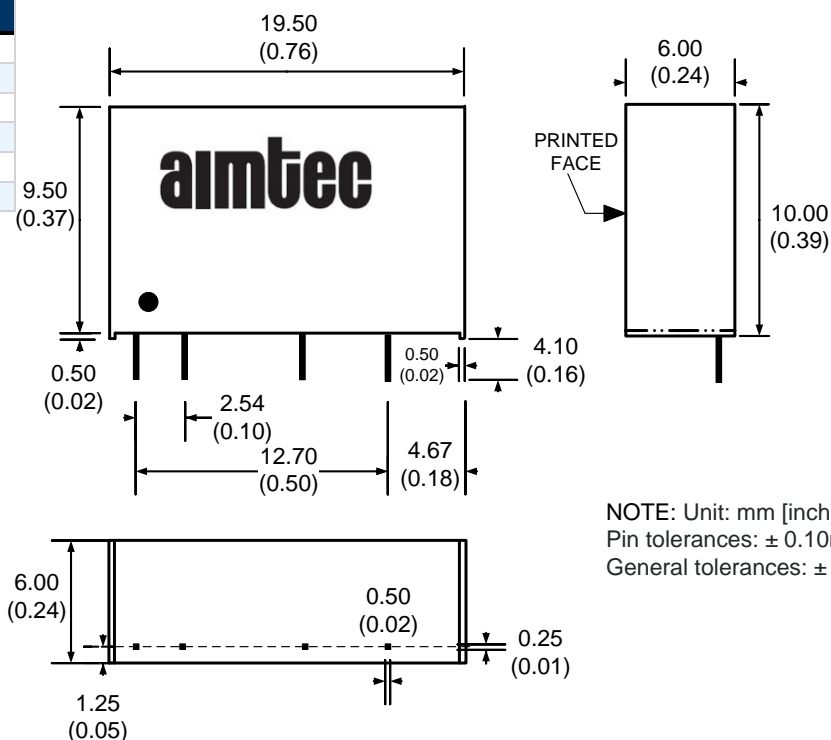
Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	120	300	KHz
Operating temperature	Derating above 71°C	-40 to +85		°C
Storage temperature		-55 to +125		°C
Cooling		Free air convection		
Humidity			95	%
Case material		Plastic UL94-VO		
Weight		2.1		g
Dimensions (L x W x H)		0.77 x 0.24 x 0.37 inch	19.60 x 6.00 x 9.50 mm	
MTBF		>3,500,000 hrs (MIL-HDBK -217F, Ground Benign, t=+25°C)		

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

Pin Out Specification

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

Dimensions

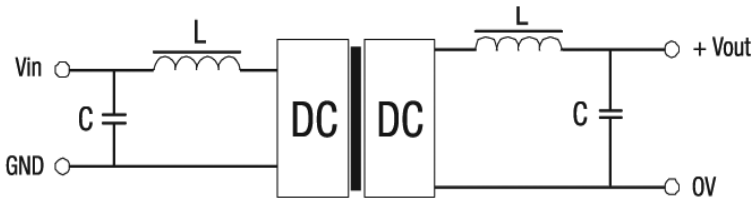


NOTE: Unit: mm [inch]
Pin tolerances: ± 0.10mm [± 0.004inch]
General tolerances: ± 0.25mm [± 0.01inch]

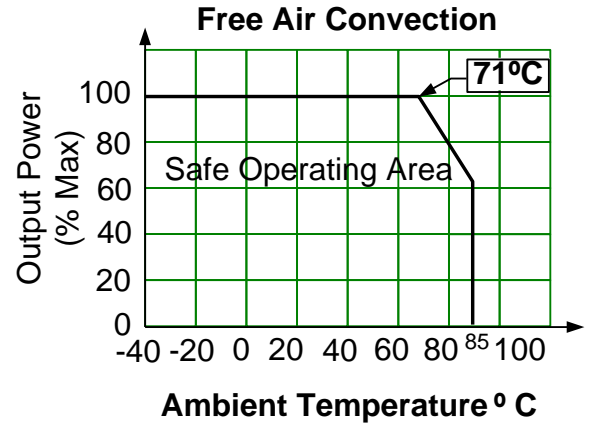
External capacitor

Vin (VDC)	External capacitor (uF)	Vout (VDC)	External capacitor (uF)
5	4.7	3.3/5	10
12/15	2.2	9	4.7
24	1	12	2.2
-	-	15	1
		24	0.47

Filtering



Derating



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