



**FEATURES:**

- Regulated Single Output
- Continuous Short Circuit Protection
- RoHS Compliant
- MTBF>1,500,000 hours
- 1000VDC Isolation
- Operating temperature: -40°C to +85°C
- Industry Standard Pinout
- SIP7 Package

**Models**  
Single output



Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Max Capacitive Load (uF)	Efficiency (%)
AM1DR-0503S-RZ	4.5-5.5	3.3	303	1000	220	55
AM1DR-0505S-RZ	4.5-5.5	5	200	1000	220	64
AM1DR-0507S-RZ	4.5-5.5	7.2	139	1000	220	64
AM1DR-0509S-RZ	4.5-5.5	9	111	1000	220	65
AM1DR-0512S-RZ	4.5-5.5	12	83	1000	220	66
AM1DR-0515S-RZ	4.5-5.5	15	67	1000	220	66
AM1DR-1203S-RZ	10.8-13.2	3.3	303	1000	220	56
AM1DR-1205S-RZ	10.8-13.2	5	200	1000	220	64
AM1DR-1207S-RZ	10.8-13.2	7.2	139	1000	220	65
AM1DR-1209S-RZ	10.8-13.2	9	111	1000	220	66
AM1DR-1212S-RZ	10.8-13.2	12	83	1000	220	66
AM1DR-1215S-RZ	10.8-13.2	15	67	1000	220	68
AM1DR-2403S-RZ	21.6- 26.4	3.3	303	1000	220	56
AM1DR-2405S-RZ	21.6- 26.4	5	200	1000	220	63
AM1DR-2407S-RZ	21.6- 26.4	7.2	139	1000	220	65
AM1DR-2409S-RZ	21.6- 26.4	9	111	1000	220	66
AM1DR-2412S-RZ	21.6- 26.4	12	83	1000	220	67
AM1DR-2415S-RZ	21.6- 26.4	15	67	1000	220	67

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		
	24	21.6- 26.4		
Filter	Capacitor			
Absolute Maximum Rating (100 ms)	5		7	VDC
	12		15	
	24		28	
No load input current			45	mA
Input reflected ripple current		20		mA p-p

**Isolation Specifications**

Parameters	Conditions	Typical	Rated	Units
Tested I/O voltage	3 sec		1000	VDC
Resistance	At 500VDC	>1000		MOhm
Capacitance		60		pF

**Output Specifications**

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy		±2		%
Short Circuit protection		Continuous		
Short circuit restart		Auto-Recovery		
Line voltage regulation	LL ~ HL	±0.5		% of Vin

### Output Specifications (continued)

Parameters	Conditions	Typical	Maximum	Units
Load voltage regulation	From 0% to 100% Load	±0.5		%
Load voltage regulation (3.3V output)	From 0% to 100% Load	±1		%
Temperature coefficient		±0.02		%/°C
Ripple & Noise	20MHz Bandwidth	50		mV p-p

### General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency		50 (variable)		KHz
Operating temperature	Full load		-40 to +85	°C
Storage temperature		-40 to +125		°C
Maximum case temperature			100	°C
Cooling		Free Air Convection		
Humidity			95	% RH
Case material		Non-Conductive Plastic (UL94V-0)		
Weight		2.7		g
Dimensions (L x W x H)		19.50 x 7.20 x 9.50 mm (0.77 x 0.28 x 0.37 inches)		
MTBF		>1,500,000 hrs dual (MIL-HDBK -217F, Ground Benign, t=+25°C)		
Maximum soldering temperature	1.5mm from case for 10 sec		260	°C

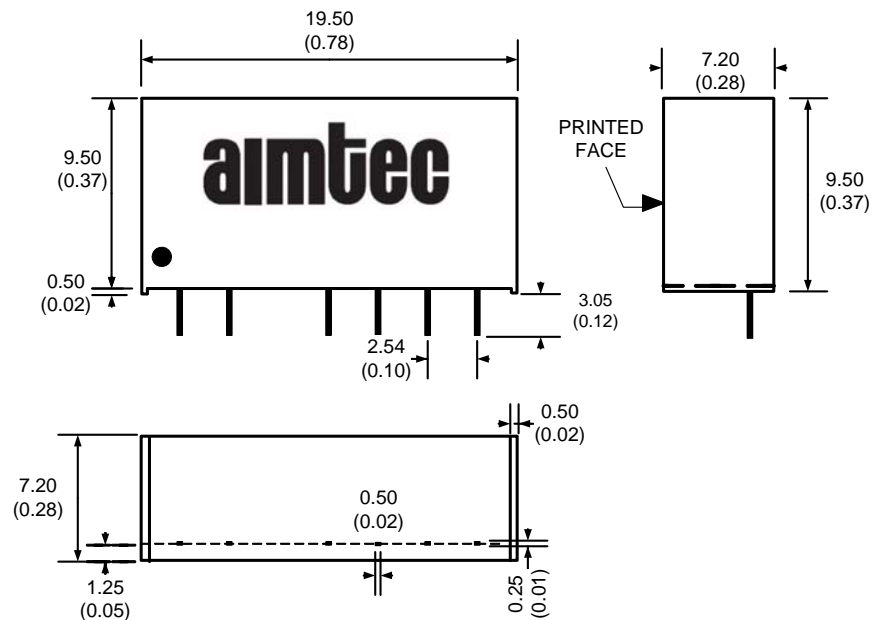
### Safety Specifications

Parameters	
Safety Standards	Designed to meet IEC 60950-1

### Pin Out Specifications

Pin	Single
1	+ V input
2	- V input
4	- V output
5	No Pin
6	+ V output
7	No Pin

### Dimensions



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