



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
- 14 Pin DIP Package



Models
Single output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Max Capacitive Load (uF)	Efficiency (%)
AM1MR-0503SZ	4.5-5.5	3.3	303	1000	220	55
AM1MR-0505SZ	4.5-5.5	5	200	1000	220	64
AM1MR-0507SZ	4.5-5.5	7.2	139	1000	220	64
AM1MR-0509SZ	4.5-5.5	9	111	1000	220	65
AM1MR-0512SZ	4.5-5.5	12	83	1000	220	66
AM1MR-0515SZ	4.5-5.5	15	67	1000	220	66
AM1MR-1203SZ	10.8-13.2	3.3	303	1000	220	56
AM1MR-1205SZ	10.8-13.2	5	200	1000	220	64
AM1MR-1207SZ	10.8-13.2	7.2	139	1000	220	65
AM1MR-1209SZ	10.8-13.2	9	111	1000	220	66
AM1MR-1212SZ	10.8-13.2	12	83	1000	220	66
AM1MR-1215SZ	10.8-13.2	15	67	1000	220	68
AM1MR-2403SZ	21.6- 26.4	3.3	303	1000	220	56
AM1MR-2405SZ	21.6- 26.4	5	200	1000	220	63
AM1MR-2407SZ	21.6- 26.4	7.2	139	1000	220	65
AM1MR-2409SZ	21.6- 26.4	9	111	1000	220	66
AM1MR-2412SZ	21.6- 26.4	12	83	1000	220	67
AM1MR-2415SZ	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	
Input no load current			35	mA
Input reflected current		20		mA

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
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)		20.30 x 10.16 x 6.90 mm (0.80 x 0.40 x 0.27 inches)		
MTBF		>1,500,000hrs dual (MIL-HDBK -217F, Ground Benign, t=+25°C) (too big, may be 1.5M?)		
Maximum soldering temperature	1.5mm from case for 10 sec		260	°C

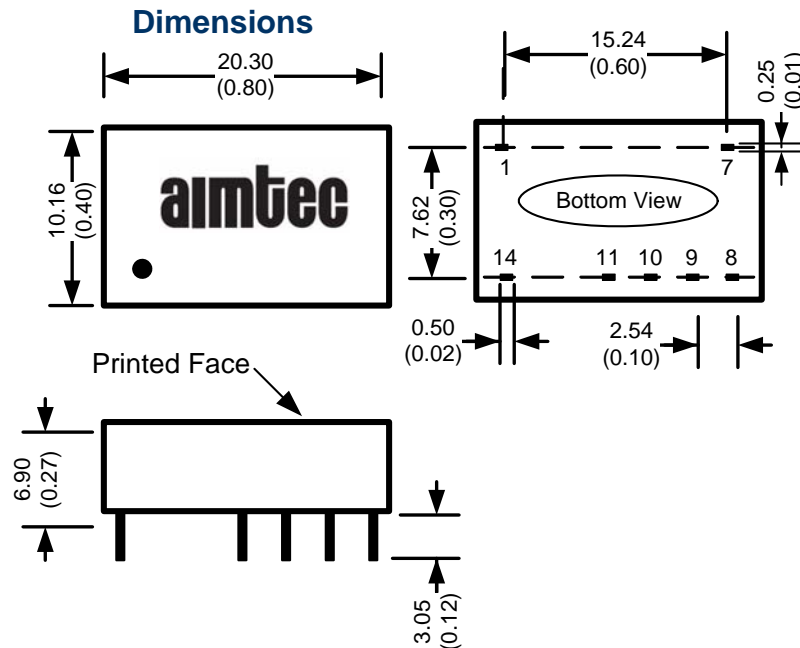
Safety Specifications

Parameters	
Safety Standards	Designed to meet IEC 60950-1

Pin Out Specifications

Pin	Single
1	- V input
7	NC
8	No Pin
9	+ V output
10	No Pin
11	- V output
14	+ V input

NC: No Connection



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