



## FEATURES:

- SMD Package
- Efficiency up to 86%
- Unregulated
- Industry Standard Pinout
- Single Output Models
- Operating temperature -40°C to +105°C
- Input / Output Isolation 1500 VDC
- Continuous Short Circuit Protection



### Models

#### Single output

Model	Input Voltage (V)	Output Voltage (V)	Output Current Max (mA)	Isolation (VDC)	Max Capacitive Load(μF)	Efficiency (%)
AM2LS-0503S-NZ	4.5-5.5	3.3	400	1500	220	78
AM2LS-0505S-NZ	4.5-5.5	5	400	1500	220	79
AM2LS-0509S-NZ	4.5-5.5	9	222	1500	220	82
AM2LS-0512S-NZ	4.5-5.5	12	167	1500	220	82
AM2LS-0515S-NZ	4.5-5.5	15	133	1500	220	83
AM2LS-1205S-NZ	10.8-13.2	5	400	1500	220	79
AM2LS-1209S-NZ	10.8-13.2	9	222	1500	220	82
AM2LS-1212S-NZ	10.8-13.2	12	167	1500	220	82
AM2LS-1215S-NZ	10.8-13.2	15	133	1500	220	83
AM2LS-1224S-NZ	10.8-13.2	24	83	1500	220	84
AM2LS-1515S-NZ	13.5-16.5	15	133	1500	220	83
AM2LS-2405S-NZ	21.6-26.4	5	400	1500	220	79
AM2LS-2409S-NZ	21.6-26.4	9	222	1500	220	82
AM2LS-2412S-NZ	21.6-26.4	12	167	1500	220	82
AM2LS-2415S-NZ	21.6-26.4	15	133	1500	220	83
AM2LS-2424S-NZ	21.6-26.4	24	83	1500	220	86

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		
Reflected Input Ripple Current		15		mA
Absolute Max Input	5 Vin	9		VDC
	12 Vin	18		
	15 Vin	21		
	24 Vin	30		
Filter		Capacitor		

### Isolation Specifications

Parameters	Conditions	Typical	Maximum	Units
Tested I/O voltage	60 sec	1500 models		VDC
Resistance	500VDC	>1000		MOhm
Capacitance		20		pF

### Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy	100% load (see tolerance chart)	±2.5		%
Short Circuit protection	12 & 15 VDC input models	Continuous Auto Recovery		
	5 & 24 VDC Input models		1	Sec
Line voltage regulation	For ±1% of Vin	±1.5		% of Vin
	3.3V models only	±1.2		
Load voltage regulation (10% - 100% load)	3.3V	18		%
	5 V	12		
	9 V	9		
	12 V	8		
	15 V	7		
24 V	6			
Temperature coefficient	100% load	±0.03		%/°C
Ripple & Noise	At 20 MHz Bandwidth	100		mV p-p

\* Products with 5Vdc and 24Vdc input voltage; the supply voltage must be discontinued at the end of short circuit duration.

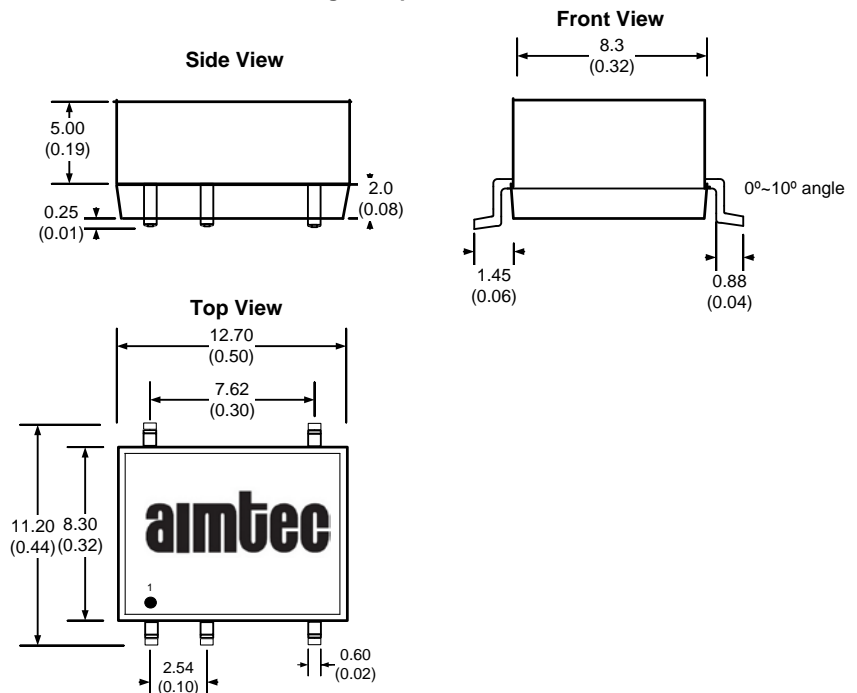
### General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	100	300	KHz
Operating temperature	With derating	-40 to +105		°C
	3.3V & 5V above +71C Others +85C			
Storage temperature		-55 to +125		°C
Cooling		Free air convection		
Storage Humidity	Non Condensing		95	% RH
Case material		Epoxy resin (UL94-V0)		
Weight		1.5		g
Dimensions (L x W x H)		0.50 x 0.44 x 0.28 inches	12.70 x 11.20 x 7.25 mm	
MTBF		>3500K hrs (MIL-HDBK -217F, Ground Benign, t=+25°C)hours		
Maximum soldering temperature	1.5mm from case for 10 sec		300	°C
Maximum case temperature			130	°C

### Pin Out Specifications and Dimensions

Pin	Single Output
1	- V Input
2	+ V Input
3	No Pin
4	-.V Output
5	+V Output
6	No Pin
7	No Pin
8	N.C.

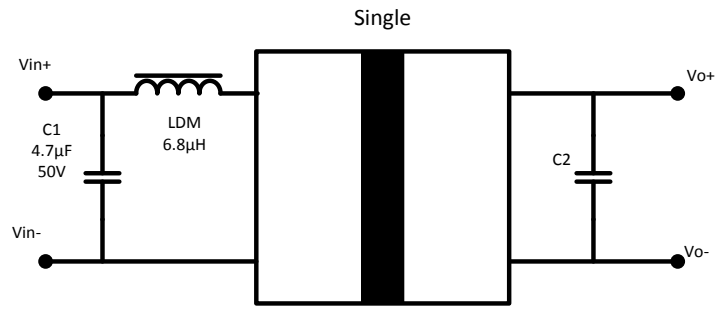
#### Single Output Models



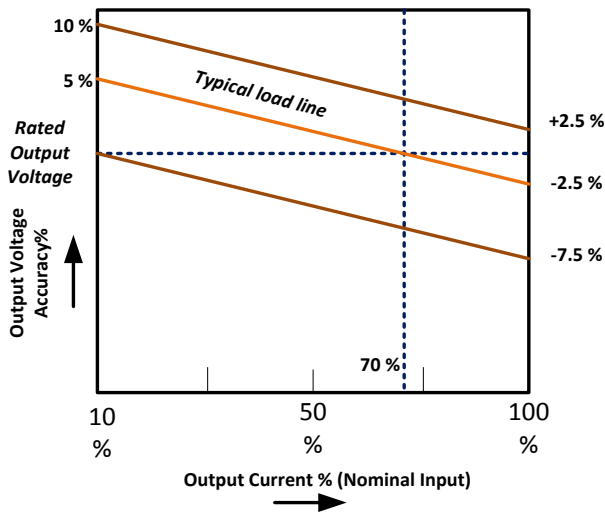
### Recommended Circuits (EMI Class B)

Capacitor selection Table

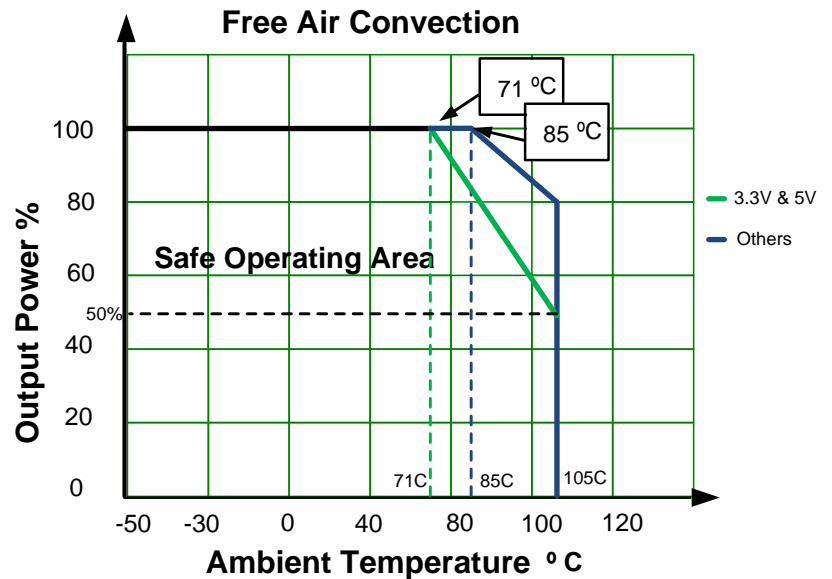
Vout	C2
3.3 V	10 $\mu$ F
5 V	10 $\mu$ F
9 V	4.7 $\mu$ F
12 V	2.2 $\mu$ F
15 V	1 $\mu$ F
24V	0.47 $\mu$ F



### Load Accuracy Tolerance Graph



### Derating



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