



FEATURES:

- Efficiency 75%
- SMD Package
- Low Ripple & Noise
- Operating Temperature -50 °C to +125 °C
- Input / Output Isolation of 3500 VDC
- Pin Compatible with multiple manufacturers
- Continuous Short Circuit Protection



Models

Single output

Model	Input Voltage (V)	Output Voltage (V)	Output Current Max / Min (mA)	Isolation (VDC)	Max Capacitive Load	Input Current Max Load No Load		Efficiency (%)
AM1LE-0505SH35-NZ	4.5-5.5	5.0	200 / 20	3500	220	267	20	75

NOTE: The model AM1LE-0505SH35-NZ is not recommended for new designs; For new design, please refer to AM1LE-0505SH35-JZ.

Input Specifications

Parameters	Nominal	Typical	Maximum	Units
Voltage range	5	4.5-5.5		VDC
Filter		Capacitor		
Reflected Ripple Current		15		mA
Absolute Maximum Rating	5V input models		-0.7 to 9	VDC
No Load Input Current			20	mA

Isolation Specifications

Parameters	Conditions	Typical	Rated	Units
Tested I/O voltage	60 sec, <1mA		3500	VDC
Resistance	500VDC	>1000		MOhm
Capacitance		20		pF

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy	Nominal load (See tolerance graph)	±2.5		%
Short Circuit protection		continuous		
Line voltage regulation	Per 1% of Vin Change		1.2	%
Load voltage regulation (Single)	10% to 100% load	12		%
Temperature coefficient	Nominal Input		±0.03	%/°C
Ripple & Noise	20MHz Bandwidth	60		mV p-p

General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	100	300	KHz
Operating temperature	No derating up to +105 °C (see derating graph)	-50 to +125		°C
Storage temperature		-55 to +135		°C
Maximum case temperature			100	°C
Cooling		Free Air Convection		
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		3.5M hours		
Maximum soldering temperature		300 (1.5mm from case for 10 seconds)		°C

Safety Specifications

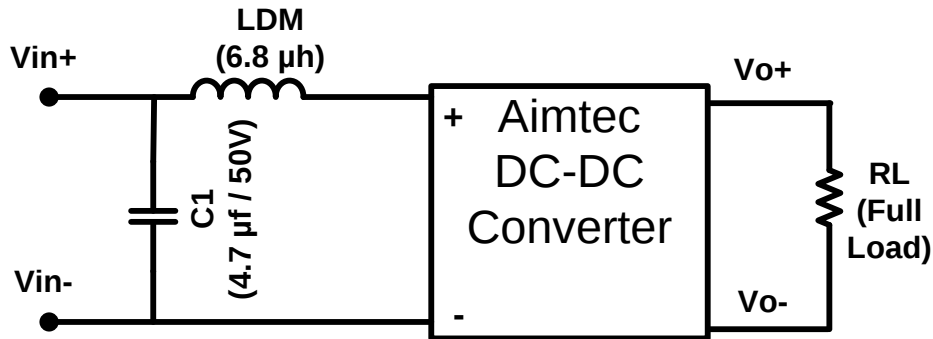
Parameters

Agency Approval	
Standards	EN55022 Class B (see recommended circuit) IEC61000-4-2, Perf. Criteria B (ESD Contact +/- 6KV)

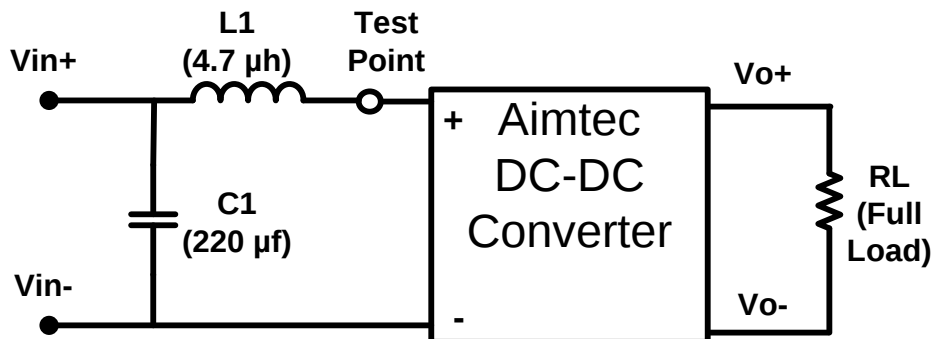
Pin Out Specifications

Pin	1000VDC Single
1	-V Input
2	+V Input
3	No Pin
4	-V Output
5	+V Output
6	No Pin
7	No Pin
8	N.C

EMI Recommended Circuit (Class B)

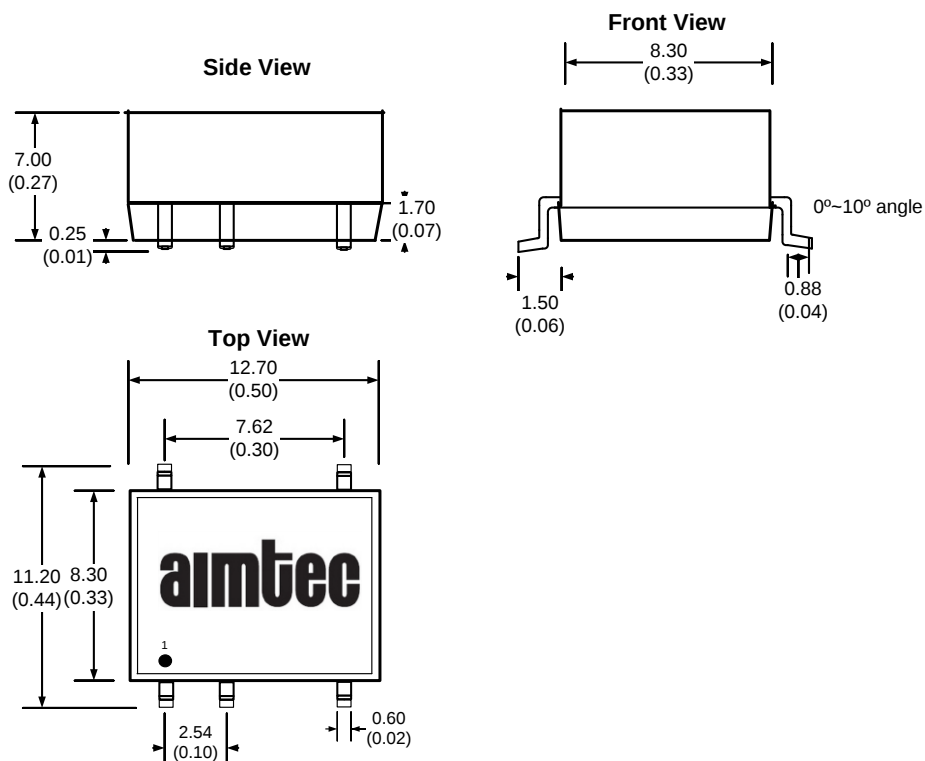


Input Reflected Ripple Current Test Circuit

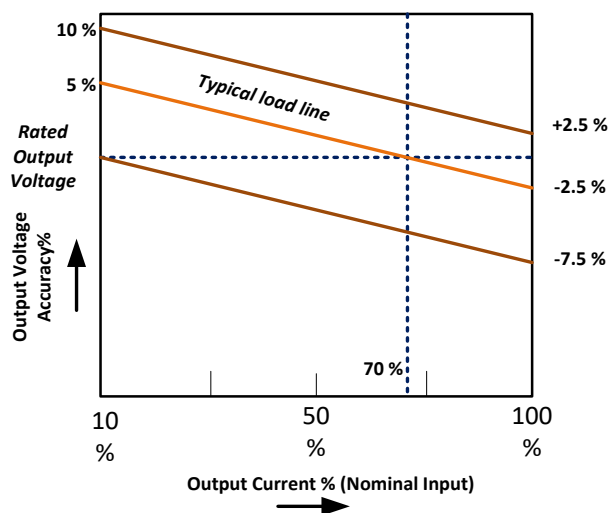


* Tested at full load, and nominal input

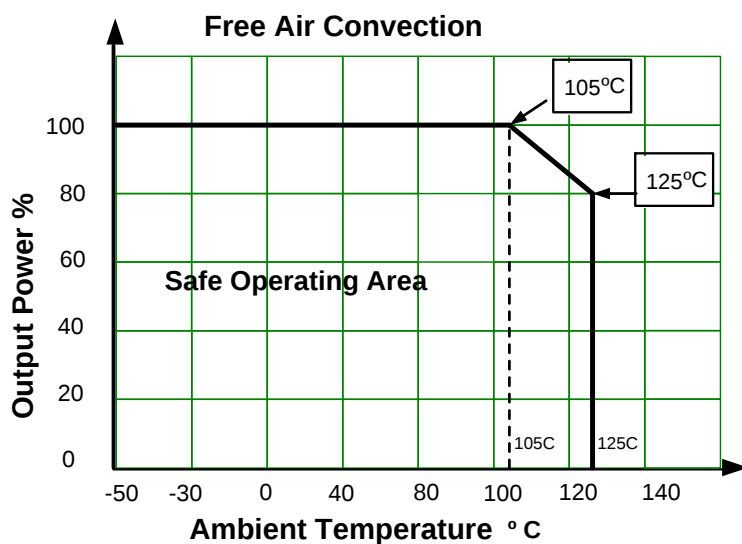
Dimensions



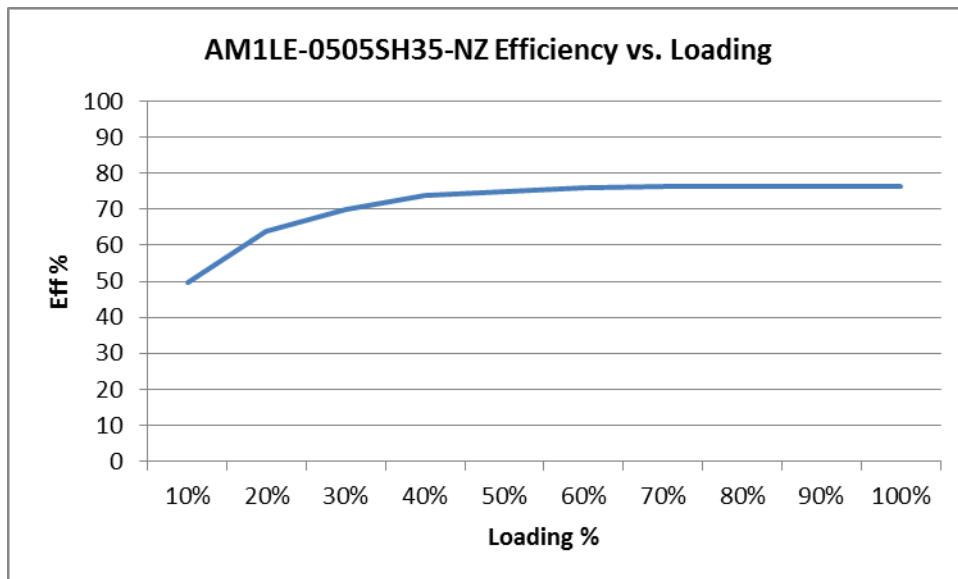
Load Accuracy Tolerance Graph



Derating



Efficiency vs. Loading



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