

Models & Specifications



Dual Output

Model	Input Voltage (VDC)	Output Voltage (VDC)	Input Current Full load typ No load max (mA)	Output Current max (mA)	Isolation (VDC)	Maximum capacitive Load (μF)	Efficiency (%)
AM2D-0524DH30Z-C	5 (4.5 – 5.5)	±24	500/30	±41.67	3000	±220	80

Input Specification

Parameters	Conditions	Typical	Maximum	Units
Filter	Capacitor			
Input reflected ripple current*		20		mA
Absolute maximum rating	100mS		7	VDC

* Measured with a 12μH simulated source inductance.

Isolation Specification

Parameters	Conditions	Typical	Maximum	Units
Tested I/O voltage	60 sec	>3000		VDC
Resistance		>1000		MOhm
Capacitance		60		pF

Output Specification

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy		±3		%
Line regulation	±1% input change	±1.2		%
Load regulation	20-100% load	±10		%
Temperature coefficient		±0.02		%/°C
Ripple & Noise*	20MHz bandwidth	75		mV pk-pk
Minimum load		10		%

General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	Variable	80		KHz
Operating temperature	Without derating	-40 to +85		°C
Storage temperature		-40 to +125		°C
Maximum Case temperature			100	°C
Soldering temperature	1.5mm away from case, ≤ 10s		260	°C
Cooling	Free air convection			
Humidity	Non-condensing		95	% RH
Case material	Black plastic (flammability to UL 94V-0)			
Weight		2.3		g
Dimensions (L x W x H)	0.76 x 0.24 x 0.39 inches 19.50 x 6.00 x 10.00 mm			
MTBF	>1 121 000 hrs (MIL-HDBK -217F, t=+25°C)			

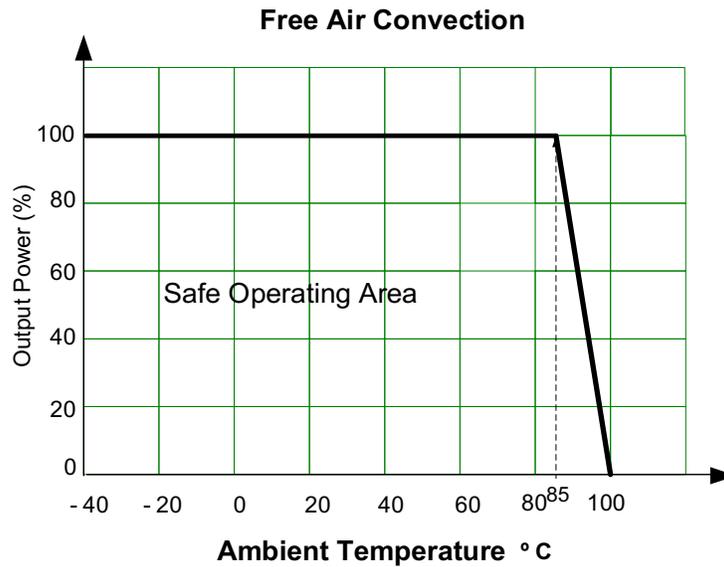
NOTE: All specifications in this datasheet are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified.

Safety Specifications

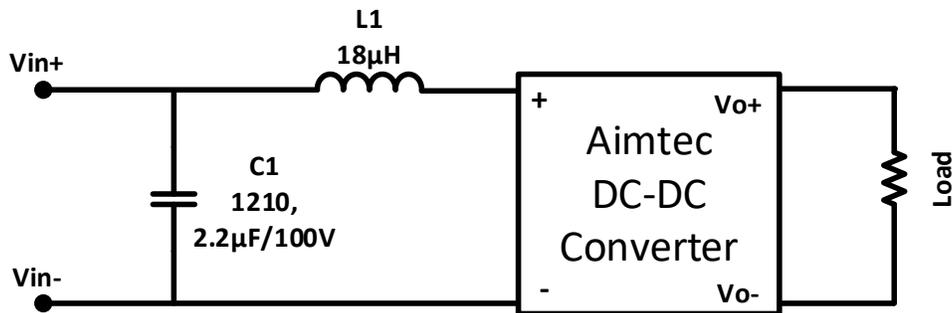
Parameters

Standards	Parameters	Standards
	EMI - Conducted and radiated emission	EN55032 Class B with the recommended EMC circuit
	Electrostatic Discharge Immunity	IEC61000-4-2, Criteria A
	RF, Electromagnetic Field Immunity	IEC61000-4-3, Criteria A
	Electrical Fast Transient/Burst Immunity	IEC61000-4-4, Criteria A with a 470uF/100V filter capacitor
	Surge Immunity	IEC61000-4-5, Criteria A with a 470uF/100V filter capacitor
	RF, Conducted Disturbance Immunity	IEC61000-4-6, Criteria A
	Power Frequency Magnetic Field Immunity	IEC61000-4-8, Criteria A

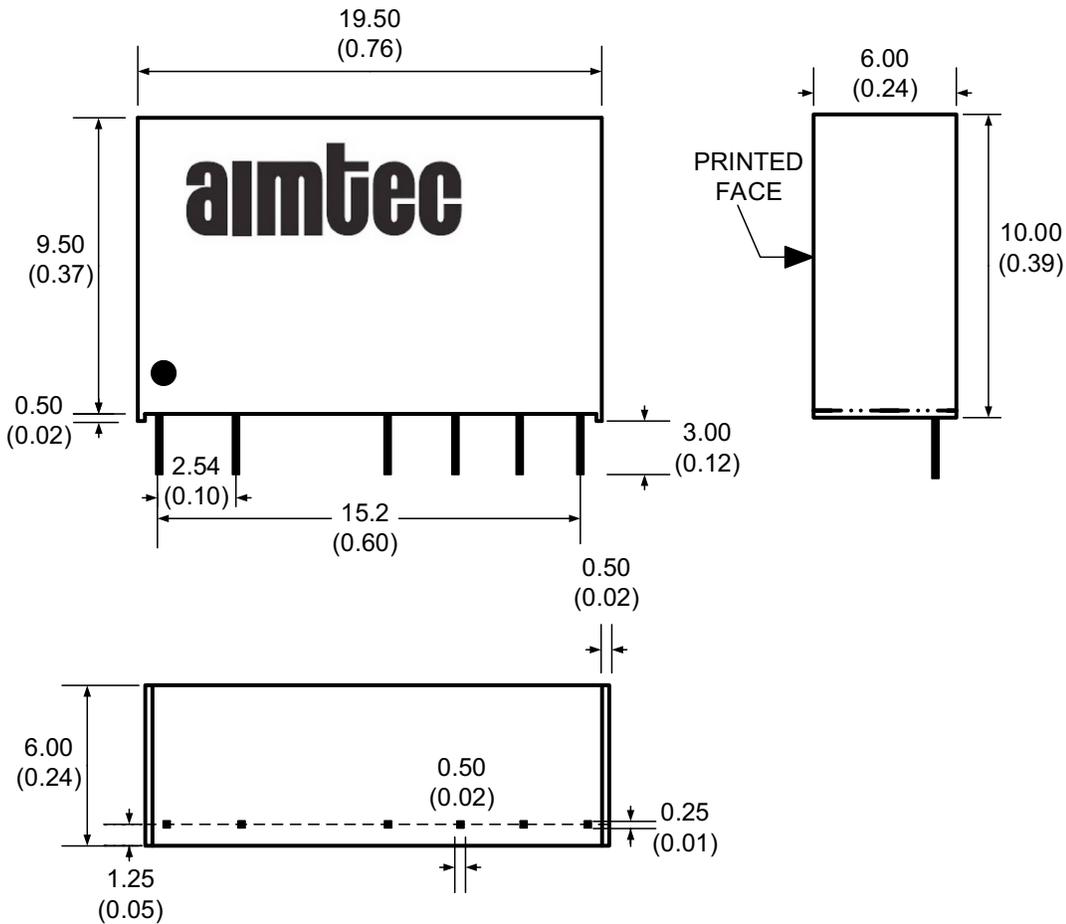
Derating



Recommended EMC circuit



Dimensions



Pin Out Specifications	
Pin	Dual
1	+ V Input
2	- V Input
4	No pin
5	-V Output
6	Common
7	+V Output

NOTE: 1. Datasheets are updated as needed and as such, specifications are subject to change without notice. Once printed or downloaded, datasheets are no longer controlled by Aimtec; refer to www.aimtec.com for the most current product specifications. **2.** Product labels shown, including safety agency certifications on labels, may vary based on the date manufactured. **3.** Mechanical drawings and specifications are for reference only. **4.** All specifications are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified. **5.** Aimtec may not have conducted destructive testing or chemical analysis on all internal components and chemicals at the time of publishing this document. CAS numbers and other limited information are considered proprietary and may not be available for release. **6.** This product is not designed for use in critical life support systems, equipment used in hazardous environments, nuclear control systems or other such applications which necessitate specific safety and regulatory standards other the ones listed in this datasheet. **7.** Warranty is in accordance with Aimtec's standard Terms of Sale available at www.aimtec.com.