

2 watt dc-dc converters

- 4PIN SIP PACKAGE
- LOW RIPPLE & NOISE
- HIGH EFFICIENCY UP TO 85%
- ULTRA MINIATURE PACKAGE
- INPUT/OUTPUT ISOLATION: 1000 & 3000VDC
- OPERATING TEMPERATURE: -40°C ... +85°C
- PIN-COMPATIBLE WITH MULTIPLE MANUFACTURERS

GENERAL DESCRIPTION

Our AM2S series is a family of cost effective 2W single output DC-DC converters. These converters achieve low cost and ultra-miniature SIP4 pin size without compromising performance and reliability.

Forty eight models operate from input voltages of 5, 12 & 24VDC; producing output voltage levels of 3.3, 5, 7.2, 9, 12, 15, 18, 24VDC. Full SMD-design and a 100% production test of parameters ensures a high reliability in this product.

ELECTRICAL SPECIFICATIONS

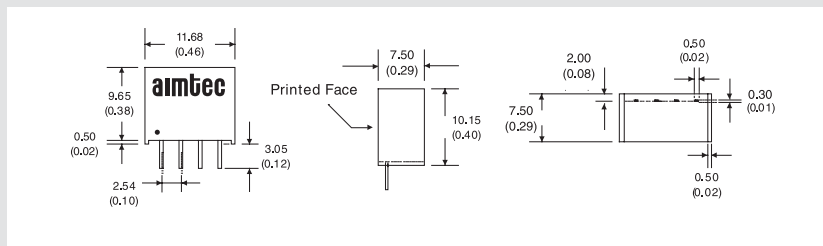
Specifications typical at +25°C, nominal input voltage, rated output current unless otherwise specified

Input Specifications:		General Specifications:	
Voltage range	±10%	Efficiency	71% to 85%
Filter	Capacitor	Switching frequency	125KHz, typ. 100% load
Isolation Specifications:		Environmental Specifications:	
Rated voltage	1000VDC	Operating temperature (ambient)	-40°C ... +85°C
	3000VDC	Storage temperature	-55°C ... +125°C
Resistance	> 1000MOhm	Case temperature	+90°C, max.
Capacitance	60pF, typ.	Derating	None required
Output Specifications:		Humidity (non-condensing)	Up to 90%
Voltage accuracy	±5%, max.	Cooling	Free-air Convection
Ripple & noise (at 20MHz BW)	150mVp-p, max.	Physical Specifications:	
Short circuit protection	Momentary	Dimensions	11.68x7.50x10.15mm
Line voltage regulation	±1.2% / 1.0% of Vin		0.46x0.29x0.40inches
Load voltage regulation	±8%, load=20~100%	Weight	2.5g
Temperature coefficient	±0.02%/°C, typ.	Case material	Non-conductive black plastic

MTBF: > 668,000 hrs (MIL-HDBK-217F, Ground Benign, t=+25°C)

Specifications are subject to change without notification

OUTLINE DIMENSIONS & PIN CONNECTIONS



Pin	1000 & 3000VDC
	Single
1	-V Input
2	+V Input
3	-V Output
4	+V Output

AM2S Series

MODELS

Single output

DC-DC CONVERTERS

Models		Input Voltage	Output Voltage	Output Current max.
Isolation 1000VDC	Isolation 3000VDC			
AM2S-0503S	AM2S-0503SH30	5V±10%	3.3VDC	400mA
AM2S-0505S	AM2S-0505SH30		5VDC	400mA
AM2S-0507S	AM2S-0507SH30		7.2VDC	278mA
AM2S-0509S	AM2S-0509SH30		9VDC	222mA
AM2S-0512S	AM2S-0512SH30		12VDC	167mA
AM2S-0515S	AM2S-0515SH30		15VDC	133mA
AM2S-0518S	AM2S-0518SH30		18VDC	111mA
AM2S-0524S	AM2S-0524SH30		24VDC	83mA
AM2S-1203S	AM2S-1203SH30	12V±10%	3.3VDC	400mA
AM2S-1205S	AM2S-1205SH30		5VDC	400mA
AM2S-1207S	AM2S-1207SH30		7.2VDC	278mA
AM2S-1209S	AM2S-1209SH30		9VDC	222mA
AM2S-1212S	AM2S-1212SH30		12VDC	167mA
AM2S-1215S	AM2S-1215SH30		15VDC	133mA
AM2S-1218S	AM2S-1218SH30		18VDC	111mA
AM2S-1224S	AM2S-1224SH30		24VDC	83mA
AM2S-2403S	AM2S-2403SH30	24V±10%	3.3VDC	400mA
AM2S-2405S	AM2S-2405SH30		5VDC	400mA
AM2S-2407S	AM2S-2407SH30		7.2VDC	278mA
AM2S-2409S	AM2S-2409SH30		9VDC	222mA
AM2S-2412S	AM2S-2412SH30		12VDC	167mA
AM2S-2415S	AM2S-2415SH30		15VDC	133mA
AM2S-2418S	AM2S-2418SH30		18VDC	111mA
AM2S-2424S	AM2S-2424SH30		24VDC	83mA