Series AM2F-Z

2 Watt | DC-DC Converter

FEATURES:

- RoHS compliant
- 12 Pin SIP Package
- Low ripple and noise
- High efficiency up to 70%
- Operating temperature -40°C to + 85°C
- Input / Output Isolation 1000, 3000 or 5200VDC
- Pin compatible with multiple manufacturers

Models
Single output
Input/Output Isolation 1000VDC

RoHS

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Capacitive load, max (µF)	Efficiency (%)
AM2F-0503SZ	4.5-5.5	3.3	600	470	64
AM2F-0505SZ	4.5-5.5	5	400	470	66
AM2F-0507SZ	4.5-5.5	7.2	278	470	64
AM2F-0509SZ	4.5-5.5	9	222	470	66
AM2F-0512SZ	4.5-5.5	12	167	470	70
AM2F-0515SZ	4.5-5.5	15	134	470	70
AM2F-0518SZ	4.5-5.5	18	111	470	67
AM2F-0524SZ	4.5-5.5	24	83	470	68
AM2F-1203SZ	10.8-13.2	3.3	600	470	64
AM2F-1205SZ	10.8-13.2	5	400	470	66
AM2F-1207SZ	10.8-13.2	7.2	278	470	63
AM2F-1209SZ	10.8-13.2	9	222	470	66
AM2F-1212SZ	10.8-13.2	12	167	470	70
AM2F-1215SZ	10.8-13.2	15	134	470	70
AM2F-1218SZ	10.8-13.2	18	111	470	66
AM2F-1224SZ	10.8-13.2	24	83	470	68
AM2F-2403SZ	21.6-26.4	3.3	600	470	54
AM2F-2405SZ	21.6-26.4	5	400	470	64
AM2F-2407SZ	21.6-26.4	7.2	278	470	63
AM2F-2409SZ	21.6-26.4	9	222	470	64
AM2F-2412SZ	21.6-26.4	12	167	470	68
AM2F-2415SZ	21.6-26.4	15	134	470	68
AM2F-2418SZ	21.6-26.4	18	111	470	68
AM2F-2424SZ	21.6-26.4	24	83	470	70
Input/Output Isolation 3000VDC					
AM2F-0503SH30Z	4.5-5.5	3.3	600	470	64
AM2F-0505SH30Z	4.5-5.5	5	400	470	66
AM2F-0507SH30Z	4.5-5.5	7.2	278	470	64
AM2F-0509SH30Z	4.5-5.5	9	222	470	66
AM2F-0512SH30Z	4.5-5.5	12	167	470	70
AM2F-0515SH30Z	4.5-5.5	15	134	470	70
AM2F-0518SH30Z	4.5-5.5	18	111	470	67
AM2F-0524SH30Z	4.5-5.5	24	83	470	68
AM2F-1203SH30Z	10.8-13.2	3.3	600	470	64
AM2F-1205SH30Z	10.8-13.2	5	400	470	66
AM2F-1207SH30Z	10.8-13.2	7.2	278	470	63
AM2F-1209SH30Z	10.8-13.2	9	222	470	66
AM2F-1212SH30Z	10.8-13.2	12	167	470	70
AM2F-1215SH30Z	10.8-13.2	15	134	470	70
AM2F-1218SH30Z	10.8-13.2	18	111	470	66
AM2F-1224SH52Z	10.8-13.2	24	83	470	68
AM2F-2403SH30Z	21.6-26.4	3.3	600	470	64
AM2F-2405SH30Z	21.6-26.4	5	400	470	64

Models

Single output (continued)

Input/Output Isolation 3000VDC

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (A)	Capacitive load, max (µF)	Efficiency (%)
AM2F-2407SH30Z	21.6-26.4	7.2	278	470	63
AM2F-2409SH30Z	21.6-26.4	9	222	470	64
AM2F-2412SH30Z	21.6-26.4	12	167	470	68
AM2F-2415SH30Z	21.6-26.4	15	134	470	68
AM2F-2418SH30Z	21.6-26.4	18	111	470	68
AM2F-2424SH30Z	21.6-26.4	24	83	470	70
Input/Output Isolation 5200VDC					
AM2F-0503SH52Z	4.5-5.5	3.3	600	470	53
AM2F-0505SH52Z	4.5-5.5	5	400	470	66
AM2F-0507SH52Z	4.5-5.5	7.2	278	470	64
AM2F-0509SH52Z	4.5-5.5	9	222	470	66
AM2F-0512SH52Z	4.5-5.5	12	167	470	70
AM2F-0515SH52Z	4.5-5.5	15	134	470	70
AM2F-0518SH52Z	4.5-5.5	18	111	470	67
AM2F-0524SH52Z	4.5-5.5	24	83	470	68
AM2F-1203SH52Z	10.8-13.2	3.3	600	470	53
AM2F-1205SH52Z	10.8-13.2	5	400	470	66
AM2F-1207SH52Z	10.8-13.2	7.2	278	470	63
AM2F-1209SH52Z	10.8-13.2	9	222	470	66
AM2F-1212SH52Z	10.8-13.2	12	167	470	70
AM2F-1215SH52Z	10.8-13.2	15	134	470	70
AM2F-1218SH52Z	10.8-13.2	18	111	470	66
AM2F-1224SH52Z	10.8-13.2	24	83	470	68
AM2F-2403SH52Z	21.6-26.4	3.3	600	470	54
AM2F-2405SH52Z	21.6-26.4	5	400	470	64
AM2F-2407SH52Z	21.6-26.4	7.2	278	470	63
AM2F-2409SH52Z	21.6-26.4	9	222	470	64
AM2F-2412SH52Z	21.6-26.4	12	167	470	68
AM2F-2415SH52Z	21.6-26.4	15	134	470	68
AM2F-2418SH52Z	21.6-26.4	18	111	470	68
AM2F-2424SH52Z	21.6-26.4	24	83	470	70

Input Specifications

Parameters	Nominal	Typical	Maximum	Units
Voltage range	5 12 24	4.5-5.5 10.8-13.2 21.6-25.4		VDC
Filter	Capacitor			
Turn on Transient process time			100	ms
Start up time		300		ms
Absolute Maximum Rating	5 Vin 12 Vin 24 Vin	0-7 0-15 0-28		VDC
Peak Input Voltage time		100		ms

Isolation Specifications

Parameters	Conditions	Typical	Rated	Units
Tested I/O voltage	3 sec		1000, 3000 or 5200	VDC
Resistance		> 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 (Single)		±0.5		%
Load voltage regulation (Single)	Load 0 – 100%	±0.5		%
Load voltage regulation (Single) 3.3V output model	Load 0 – 100%	±1.5		%
Temperature coefficient		±0.02		%/°C
Ripple & Noise	At 20MHz Bandwidth	75		mV p-p
Rising time		150		ms

General Specifications

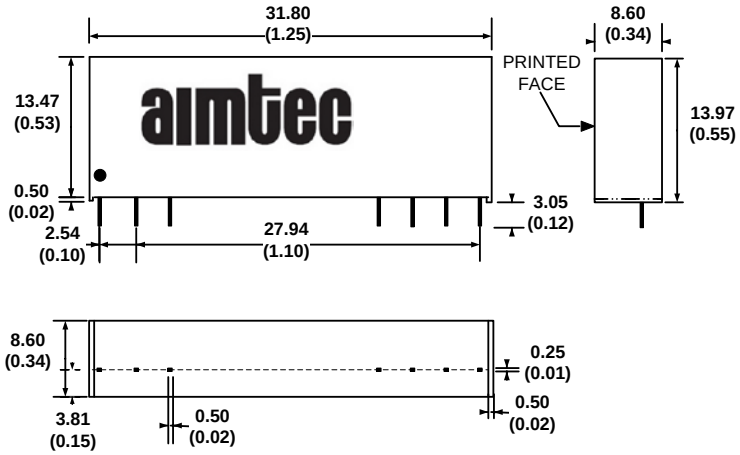
Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	50		**KHz**
Operating temperature	Full Load without Derating	-40 to +85		**°C**
Storage temperature		-40 to +125		**°C**
Max Case temperature			90	**°C**
Cooling		Free air convection		**%**
Humidity			90	**%**
Case material		**Plastic UL94-VO**		
Weight		3.8		**g**
Dimensions (L x W x H)		**1.25 x 0.34 x 0.53 inches**	**31.80 x 8.60 x 13.47 mm**	
MTBF	**>1 500 000 hrs (MIL-HDBK -217F, Ground Benign, 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

Pin Out Specifications

Pin	1000VDC	3000 and 5200VDC
1	+V Input	+V Input
2	N.C.	-V Input
3	N.C.	N.C.
9	N.C.	N.C.
10	-V Output	-V Output
11	+V Output	+V Output
12	-V Input	N.C.

Dimensions



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- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
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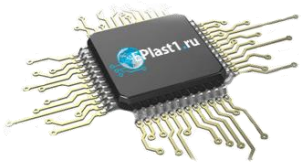
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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