



FEATURES:

- Non RoHS compliant
- 4 Pin SIP Package
- Ultra miniature package
- High efficiency up to 84%
- Operating temperature -40°C to + 85°C
- Input / Output Isolation 1000 and 3000VDC
- Pin compatible with multiple manufacturers

Models

Single Output

Input/Output Isolation 1000VDC

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Capacitive load, max (µF)	Efficiency (%)
AM2S-0503SZ	4.5-5.5	3.3	400	220	71
AM2S-0505SZ	4.5-5.5	5	400	220	77
AM2S-0507SZ	4.5-5.5	7.2	270	220	77
AM2S-0509SZ	4.5-5.5	9	220	220	80
AM2S-0512SZ	4.5-5.5	12	160	220	82
AM2S-0515SZ	4.5-5.5	15	130	220	82
AM2S-0518SZ	4.5-5.5	18	110	220	82
AM2S-0524SZ	4.5-5.5	24	80	220	82
AM2S-1203SZ	10.8-13.2	3.3	400	220	72
AM2S-1205SZ	10.8-13.2	5	400	220	78
AM2S-1207SZ	10.8-13.2	7.2	270	220	80
AM2S-1209SZ	10.8-13.2	9	220	220	82
AM2S-1212SZ	10.8-13.2	12	160	220	84
AM2S-1215SZ	10.8-13.2	15	130	220	84
AM2S-1218SZ	10.8-13.2	18	110	220	84
AM2S-1224SZ	10.8-13.2	24	80	220	82
AM2S-2403SZ	21.6-26.4	3.3	400	220	74
AM2S-2405SZ	21.6-26.4	5	400	220	80
AM2S-2407SZ	21.6-26.4	7.2	270	220	80
AM2S-2409SZ	21.6-26.4	9	220	220	84
AM2S-2412SZ	21.6-26.4	12	160	220	84
AM2S-2415SZ	21.6-26.4	15	130	220	84
AM2S-2418SZ	21.6-26.4	18	110	220	84
AM2S-2424SZ	21.6-26.4	24	80	220	84

Input/Output Isolation 3000VDC

AM2S-0503SH30Z	4.5-5.5	3.3	400	220	71
AM2S-0505SH30Z	4.5-5.5	5	400	220	77
AM2S-0507SH30Z	4.5-5.5	7.2	270	220	77
AM2S-0509SH30Z	4.5-5.5	9	220	220	80
AM2S-0512SH30Z	4.5-5.5	12	160	220	82
AM2S-0515SH30Z	4.5-5.5	15	130	220	82
AM2S-0518SH30Z	4.5-5.5	18	110	220	82
AM2S-0524SH30Z	4.5-5.5	24	80	220	82
AM2S-1203SH30Z	10.8-13.2	3.3	400	220	72
AM2S-1205SH30Z	10.8-13.2	5	400	220	78
AM2S-1207SH30Z	10.8-13.2	7.2	270	220	80
AM2S-1209SH30Z	10.8-13.2	9	220	220	82
AM2S-1212SH30Z	10.8-13.2	12	160	220	84
AM2S-1215SH30Z	10.8-13.2	15	130	220	84
AM2S-1218SH30Z	10.8-13.2	18	110	220	84
AM2S-1224SH30Z	10.8-13.2	24	80	220	82
AM2S-2403SH30Z	21.6-26.4	3.3	400	220	74
AM2S-2405SH30Z	21.6-26.4	5	400	220	80
AM2S-2407SH30Z	21.6-26.4	7.2	270	220	80
AM2S-2409SH30Z	21.6-26.4	9	220	220	84
AM2S-2412SH30Z	21.6-26.4	12	160	220	84

Models

Single Output (continued)

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Capacitive load, max (μF)	Efficiency (%)
AM2S-2415SH30Z	21.6-26.4	15	130	220	84
AM2S-2418SH30Z	21.6-26.4	18	110	220	84
AM2S-2424SH30Z	21.6-26.4	24	80	220	84

Input Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage range		4.5-5.5	-0.7 - 7	VDC
		10.8-13.2	-0.7 - 15	
		21.6-25.4	-0.7 - 28	
Filter	Capacitor			

Isolation Specifications

Parameters	Conditions	Typical	Maximum	Units
Rated voltage	60 sec	1000 or 3000		VDC
Resistance		> 1000		MOhm
Capacitance		60		pF

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy			±3	%
Short Circuit protection	1sec			
Over current protection	110% Iout max			
Line voltage regulation (Single)	For 1.0% of Vin		±1.2	%
Load voltage regulation (Single)	20...100% load		±10	%
Temperature coefficient		±0.02		%/°C
Ripple & Noise	At 20MHz Bandwidth	100		mV p-p

General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	50		KHz
Operating temperature	Without derating		-40 to +85	°C
Storage temperature		-40 to +125		°C
Case temperature			100	°C
Cooling	Free air convection			
Humidity	Non condensing		95	%
Case material		Plastic UL94-V0		
Weight		1.8		g
Dimensions		0.46 x 0.29 x 0.4 inches	11.68 x 7.5 x 10.15 mm	
MTBF		>668 000hrs (MIL-HDBK -217F, Ground Benign, t=+25°C)		

Safety Specifications

Standards	
Safety	EN55022 (Conducted and Radiated Emissions), EN55024 (Noise Immunity), IEC61000-4-2(ESD), IEC61000-4-3(Radiated immunity)
Agency approvals	CE (for 1000VDC Isolated models)

Pin Out Specifications

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

Dimensions

