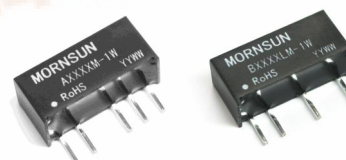


A M-1W & B LM-1W Series

**1W, FIXED INPUT, ISOLATED & UNREGULATED
DUAL/SINGLE OUTPUT, SUPERMINIATURE SIP PACKAGE**



multi-country patent protection **RoHS**

FEATURES

Efficiency up to 80%

Miniature SIP Package Style

Temperature Range: -40°C to +85°C

Internal SMD Construction

Industry Standard Pinout

No Heat sink Required

No External Component Required

RoHS Compliance

APPLICATIONS

The A_M-1W & B_LM-1W Series are specially designed for applications where a group of polar power supplies are isolated from the input power supply in a distributed power supply system on a circuit board.

These products apply to:

- 1) Where the voltage of the input power supply is fixed (voltage variation $\leq \pm 10\%$);
- 2) Where isolation is necessary between input and output (isolation voltage $\leq 1000\text{VDC}$);
- 3) Where the regulation of the output voltage and the output ripple noise are not demanding.

Such as: purely digital circuits, ordinary low frequency analog circuits, and IGBT power device driving circuits.

PRODUCT PROGRAM

Part Number	Input		Output			Efficiency (% , Typ)
	Voltage (VDC)		Voltage (VDC)	Current (mA)		
	Nominal	Range		Max	Min	
A0505M-1W	5	4.5-5.5	±5	±100	±10	70
A0509M-1W			±9	±56	±6	75
A0512M-1W			±12	±42	±5	78
A0515M-1W			±15	±33	±4	79
A1205M-1W	12	10.8-13.2	±5	±100	±10	72
A1209M-1W			±9	±56	±6	75
A1212M-1W			±12	±42	±5	77
A1215M-1W			±15	±33	±4	79
B0505LM-1W	5	4.5-5.5	5	200	20	70
B0509LM-1W			9	111	12	75
B0512LM-1W			12	83	9	79
B0515LM-1W			15	67	7	80
B1205LM-1W	12	10.8-13.2	5	200	20	72
B1209LM-1W			9	111	12	75
B1212LM-1W			12	83	9	77
B1215LM-1W			15	67	7	79
B2405LM-1W	24	21.6-26.4	5	200	20	70
B2409LM-1W			9	111	12	73
B2412LM-1W			12	83	9	75
B2415LM-1W			15	67	7	78
B2424LM-1W			24	42	5	77

ISOLATION SPECIFICATIONS

Item	Test conditions	Min	Typ	Max	Units
Isolation voltage	Tested for 1 minute and 1mA max	1000			VDC
Isolation resistance	Test at 500VDC	1000			MΩ

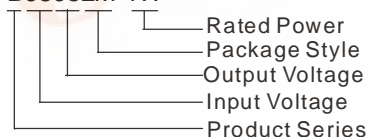
OUTPUT SPECIFICATION

Item	Test Conditions	Min	Typ	Max	Units
Output power		0.1		1	W
Line regulation	For Vin change of 1%			1.2	
Load regulation	10% to 100% full load(5V output)		10	15	%
	10% to 100% full load(9V output)		8.3	10	
	10% to 100% full load(12V output)		6.8	10	
	10% to 100% full load(15V output)		6.3	10	
	10% to 100% full load(24V output)		5	10	
Temperature drift	100% full load			0.03	%/°C
Output voltage accuracy		See tolerance envelope graph			
Ripple & Noise*	20MHz Bandwidth(AXXXXM-1W)		50	75	mVp-p
	20MHz Bandwidth(BXXXXLM-1W)		75	100	
Switching frequency	100% load, nominal input(5V,12V)		100		KHz
	100% load, nominal input(24V)		500		

*Test ripple and noise by "parallel cable" method. See detailed operation instructions at Testing of Power Converter section, application notes.

MODEL SELECTION

B0505LM-1W



MORNSUN Science& Technology co.,Ltd.

Address: 2th floor 6th building, Hangzhou

Industrial District, Guangzhou, China

Tel: 86-20-38601850

Fax: 86-20-38601272

<http://www.mornsun-power.com>

