

B_LS/D-1W Series**1W, Fixed Input, Isolated&Unregulated Single Output DC-DC Converter****Characteristics:**

- Environment-friendly Design, RoHs Compliance
- CE Certificate
- Industrial Products. Temperature Range: -40~+85°C
- Rated Power: 0.1W ~1W
- Fixed Input: 5V, 12V, 15V, 24V
- Unregulated Output: 3.3V, 5V, 9V, 12V, 24V
- Isolated Voltage: $\geq 1000\text{VDC}$
- High Stability&Performance, MTBF ≥ 1 million Hours
- International Standard Pins, SIP/DIP Package

Product List

Input Range (V)	Nominal Output Voltage/Current		Efficiency (%)(Typ.)	Ripple&Noise (mVp-p)	Part Number
	Output Voltage (V)	Max. Output Current (mA)			
5 / 3.3V	3.3	303	68	75	B0503LS/D-1W
	5	200	70	75	B0505LS/D-1W
	9	111	73	75	B0509LS/D-1W
	12	83	76	85	B0512LS/D-1W
	15	66	76	85	B0515LS/D-1W
	24	41	80	100	B0524LS/D-1W
12	3.3	303	68	75	B1203LS/D-1W
	5	200	72	75	B1205LS/D-1W
	9	111	73	75	B1209LS/D-1W
	12	83	76	85	B1212LS/D-1W
	15	66	76	85	B1215LS/D-1W
	24	41	80	100	B1224LS/D-1W
15	3.3	303	68	75	B1503LS/D-1W
	5	200	72	75	B1505LS/D-1W
	9	111	73	75	B1509LS/D-1W
	12	83	76	85	B1512LS/D-1W
	15	66	76	85	B1515LS/D-1W
	24	41	80	100	B1524LS/D-1W
24	3.3	303	68	75	B2403LS/D-1W
	5	200	72	75	B2405LS/D-1W
	9	111	75	75	B2409LS/D-1W
	12	83	77	85	B2412LS/D-1W
	15	66	78	85	B2415LS/D-1W
	24	41	81	100	B2424LS/D-1W

Note: Ripple and Noise (Peak-Peak) Test by Probe and Twisted-pair Cable.

LS: SIP; LD: DIP.

Specifications of 0.1W, 0.25W, and 0.5W converters similar to the above except output current.

Specifications			
Note: all specifications measured at Ta=25°C, nominal input voltage and nominal load.			
Input			
Input Voltage		nominal 5V	4.5-5.5VDC
		nominal 12V	10.8-13.2VDC
		nominal 24V	21.6-26.4VDC
Load Power Consumption			10% rated power(Typ.)
Output			
Output Power	operating temperature<85°C		0.1w~1W
Voltage Accuracy			as shown in tolerance envelope graph
Line Voltage Regulation	rated load, input voltage range	Vo1	1.2%(Typ.)
Load Regulation	nominal input, 10%~100% load	Vo1	10%(Typ.)
General			
Switching Frequency (Typ.)			100KHz
Insulation Resistance	Test at 500VDC		1000MΩ
Insulation Voltage	Tested for 1 minute and 1 mA Max.		1000VDC
Operating Temp.	≤Rated Load		-40°C~+85°C
Storage Temp.	Humidity≤90%		-40°C~+125°C
MTBF	Ta=25°C		1 million hours
CE certificate			E0611042E