

B_S/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, 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, compact 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	3.3	303	68	75	B0503S/D-1W
	5	200	70	75	B0505S/D-1W
	9	111	73	75	B0509S/D-1W
	12	83	76	85	B0512S/D-1W
	15	66	76	85	B0515S/D-1W
	24	41	80	100	B0524S/D-1W
12	3.3	303	68	75	B1203S/D-1W
	5	200	72	75	B1205S/D-1W
	9	111	73	75	B1209S/D-1W
	12	83	76	85	B1212S/D-1W
	15	66	76	85	B1215S/D-1W
	24	41	80	100	B1224S/D-1W
24	3.3	303	68	75	B2403S/D-1W
	5	200	72	75	B2405S/D-1W
	9	111	75	75	B2409S/D-1W
	12	83	77	85	B2412S/D-1W
	15	66	78	85	B2415S/D-1W
	24	41	81	100	B2424S/D-1W

Note: S: SIP; D: 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	1.2%(Typ.)
Load Regulation	nominal input, 10%~100% load	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