

ECCO Electronics Technology Co.,ltd

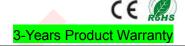
B_D-2W series

Typical Performance

FEATURES

- Fixed Input, isolation, unregulated single output,2W
- Isolation voltage: 1000VDC
- DIP package
- Efficiency :up to 80%
- Working temperature -40°C~+85°C
- MTBF≥35x10⁵Hrs
- Industry standard pinout
- Isolation capacitance:90PF
- No external component required
- In line with RoHS codes
- Line regulation (for Vin change of ±1%): ±1.2%(max)
- Load regulation (10%-100% load) 15%
- Ripple and noise (20MHz Band width) <75mVp-p
- Temperature drift(100% full load):±0.03%/°C(max)
- Switching Frequency(Full load,nominal input):100Khz(typ)
- Storage Temperature:-55°C~+125°C
- Isolation Resistance:1000MΩ/1min
- Isolation capacitance:60Pf(typ)
- Cooling:Free aire converction





Product Program

Part #	Input voltage range	VO1			VO2			Efficiency
		Voltage (VDC)	(mA)	(mA)	Voltage (VDC)	(mA)	(mA)	- (%, typ)
B0303D-2W	2) //2 . 2 6) /)	3.3	400					73
B0503D-2W	3V(3~3.6V)	3.3	400					74
B0505D-2W	5V(4.5~5,.5V) - 12V(10.8~13.2V)	5	400					81
B0509D-2W		9	222					84
B0512D-2W		12	167					83
B0515D- 2W		15	133					84
B1205D-2W		5	400					81
B1209D-2W		9	222					82

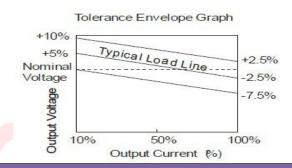
B1212D-2W		12	167			85
B1215D-2W		15	133			82
B1224D-2W		24	83			87
B2405D-2W	24V(21.6~26.4V)	5	400			80
B2409D-2W		9	222			83
B2412D-2W		12	167			84
B2415D-2W		15	133			84
B2424D-2W		24	83			84

□ Shows the nominal value of input voltage,due to space limitations ,the above list is only for some products,If other than a list of products, please contact the Company's sales department.

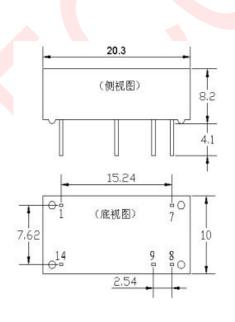
Mechanical Data

Packing Code	LxWxH : mm	Packing No.		
B_D-2W	20.3*10*7			

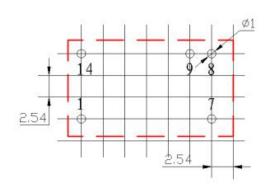
Typical Temperature Curve



Mechanical Dimension



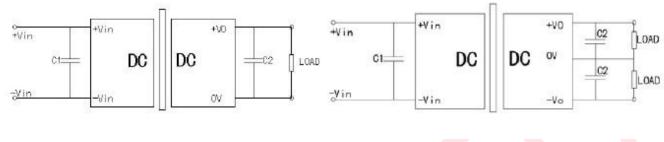
推荐 PCB 图



BOTTON VIEW unit:mm

Pin Assignment								
PIN	1	7	8	9	14			
Single output	GND	NC	0V	+Vo	Vin			

Recommend Circuit



Single O/P Dual O/P

C1, C2 select

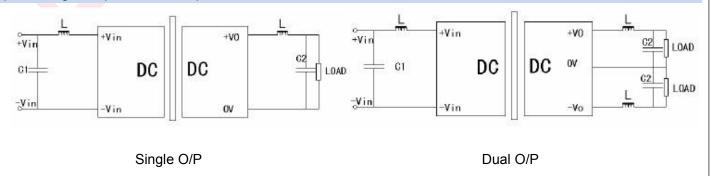
INPUT VOLTAGE	C1	VOLTAGE	C2	
3.3VDC	4.7uF	3.3VDC	10uF	
5VDC	4.7uF	5VDC	10uF	
12VDC	2.2uF	9VDC	4.7uF	
15VDC	2.2uF	12VDC	2.2uF	
12VDC	1uF	15 VDC/24VDC	1uF	

Application Note

- (1)Pls don't use under no load: when the load power is less than 10% of the rated power ,we advise to connect the resistance following the output or the selection the smaller rated power module, for the resistance, the value is $5\sim10\%$ of the rated power, resistance= $U_2/(10\%\times1W)$
- (2)Pls don't connect the excessive capacitor in external circut :output connects C2's value can't be too big,, otherwise easily lead to module startup flow or poor starting,

According to the external table to select the capacitance

(3)For the ripple&noise with higher requirements ,we advise to connect the LC filter, the frequency of LC filter is far smaller than the DC / DC module switching frequency, prevent mutual interference, resulting in increased the ripple damage the power module,pls see below



*Note: The power modules such as the definition of the pin does not match with the hand book, please refer to the actual item.