ZYGKJ **ZHONGYIGUANG GUANGZHOU TECHNOLOGY LTD,.**

DC-DC Module power supply
2W BXXYYLS(LD) Series

Constant pressure input unsteady double output

B0505LS-2W
● RoHS   1125

RoHS

Key features

- Good temperature characteristics
- Isolation voltage 1000VDC
- Small S/DIP package
- Pins of international standards
- Internal patch design structure
- Comply with RoHS certification requirements
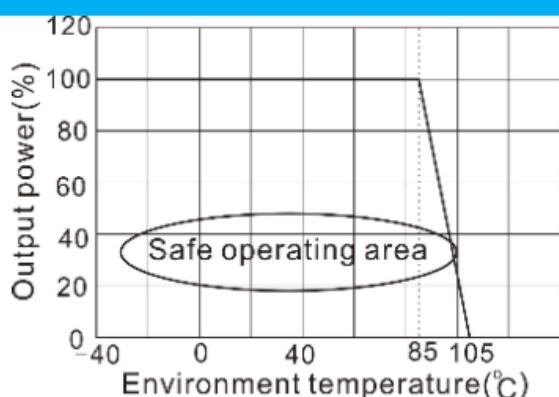
Electrical specifications

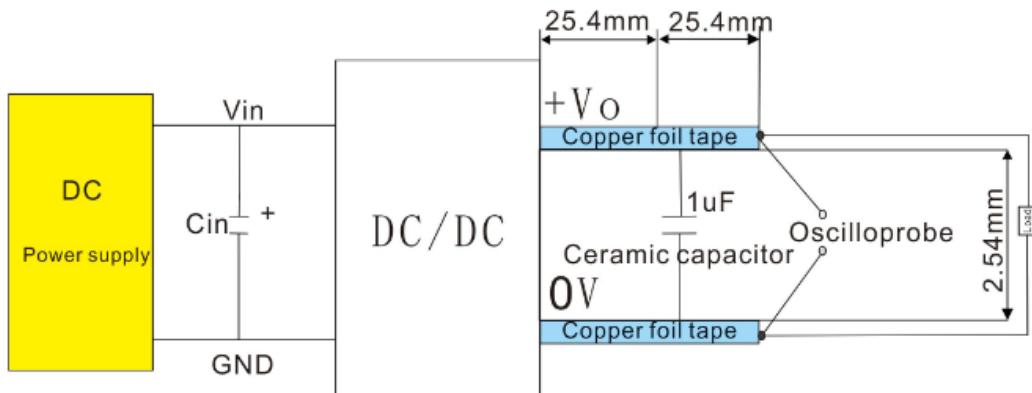| Model	Input voltage range (V)	The output of the voltage/current	Minimum output current (mA)	Maximum capacity load (uF)	Efficiency (%)
B0505LS/LD -2W	4.5 ~ 5.5	5VDC/400mA	40	10	81
B0512LS/LD-2W	4.5 ~ 5.5	12VDC/166mA	16	4.7	83
B0515LS/LD-2W	4.5 ~ 5.5	15VDC/133mA	13	2.2	83
B0524LS/LD-2W	4.5 ~ 5.5	24VDC/83mA	8	1	80
B1205LS/LD-2W	10.8 ~ 13.2	5VDC/400mA	40	10	80
B1212LS/LD-2W	10.8 ~ 13.2	12VDC/166mA	16	4.7	83
B1215LS/LD-2W	10.8 ~ 13.2	15VDC/133mA	13	2.2	82
B1224LS/LD-2W	10.8 ~ 13.2	24VDC/83mA	8	1	82
B1505LS/LD-2W	13.5 ~ 16.5	5VDC/400mA	40	10	80
B1512LS/LD-2W	13.5 ~ 16.5	12VDC/166mA	16	4.7	82
B1515LS/LD-2W	13.5 ~ 16.5	15VDC/133mA	13	2.2	82
B1524LS/LD-2W	13.5 ~ 16.5	24VDC/83mA	8	1	80
B2405LS/LD-2W	21.6 ~ 26.4	5VDC/400mA	40	10	83
B2412LS/LD-2W	21.6 ~ 26.4	12VDC/166mA	16	4.7	82
B2415LS/LD-2W	21.6 ~ 26.4	15VDC/133mA	13	2.2	80
B2424LS/LD-2W	21.6 ~ 26.4	24VDC/83mA	8	1	82

General features

Output voltage accuracy (nominal voltage input, 100% load)	-7.5（MIN），+2.5(MAX)
Load Regulation	15(TYP) 20(MAX)
Voltage regulation factor	1(TYP) ±1.2（MAX）
Output ripple + noise (20MHz bandwidth, nominal voltage input 100% load)	100 mV(TYP) 150 mV(MAX)
Switching frequency	100KHz(TYP)
Temperature drift coefficient (nominal voltage input 100% load, and 40 ℃ ~ + 85 ℃)	±0.03%/℃(MAX)

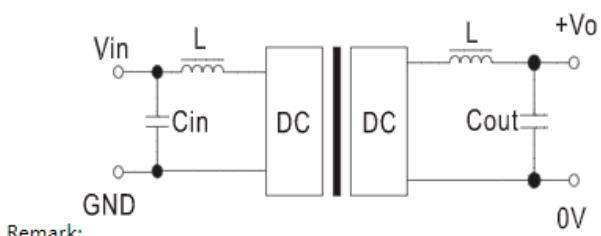| Store humidity	95%(MAX)
Working environment temperature	-40℃ ~ 85℃
Storage temperature	-55℃ ~ 125℃
The shell heats up when the product works	35℃（TYP)
Insulation strength (1 minute test time, less than 0.5MA leakage current)	1000VDC
Cooling way	Natural cooling
The average time between failures (TA = 25 ℃)	1 million hours（MIN)
Insulation resistance (insulation voltage 500VDC)	1000MΩ(MIN)
The shell material	Flame retardant heat-resistant plastics(UL94-V0

Reduction curve

Test method of ripple and noise

Application notices

Remark:

①Output load requirements

In order to ensure that the module can work efficiently and reliably, its output minimum load cannot be less than 10% of the rated load, and the