

World Standard Analog Equipment

5 Watt BR-LB Series

Ultra Low Noise Dual Output DC-DC Converters/ BR-LB 5Watt Series

Ultra Low Noise 3mVpp, Isolated Type DC-DC Converter

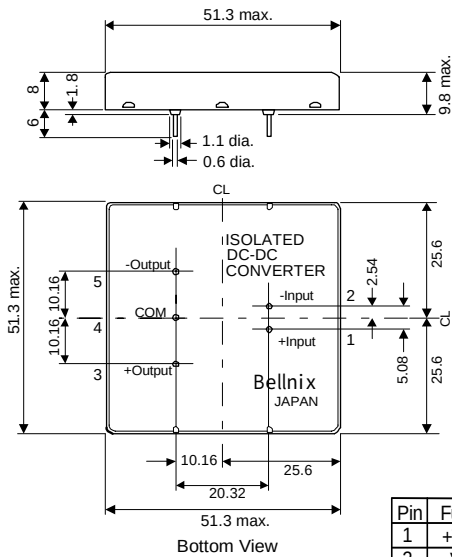
Input: 5V Output: ±12V, ±15V

- Ultra Low Noise 3mVp-p
- Analog, Digital Optimum
- Short Circuit, Over-Current Protection
- No Electrolytic Capacitor, No Tantalum Capacitor
- 5-Side Metallic shield structure
- EMI Line Filter
- Over-Heat Protection
- Long-Life with TCT Patent Circuit
- Isolation Voltage DC500V
- Low Drift 50mV/8H
- Temp. Coefficient ±0.02%/°C
- Operating Temp. Range -20°C to +70°C (Temp. derating required)
- RoHS Compliance

Models BR-LB Series	Input V Vdc	Output +V/I, -V/I +Vdc/mA, -Vdc/mA	Line Reg % (typ.)	Load Reg % (typ.)	Ripple/ Noise mVpp(max.)	Efficiency % (typ.)
BR05-1220LB	4.75-6	+12/208, -12/-208	0.03	0.18	3	64
BR05-1225LB		+12/250, -12/-125				
BR05-1516LB		+15/167, -15/-167				
BR05-1520LB		+15/200, -15/-100				

Note 1: Derating required from input voltage above 5.25V.

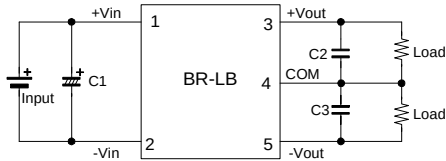
<Outline>



Dimensions: mm Weight: 31g typ.

Pin	Function
1	+Vin
2	-Vin
3	+Vout
4	Common
5	-Vout

<Standard Connection Circuit Diagram>

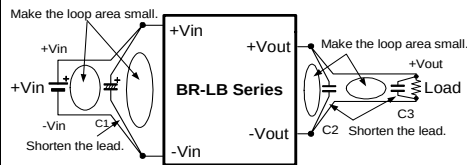


- Recommended Capacitor

C1=100µF

C2,C3=1µF

Basically, external capacitors are not required, but noise can be lowered by reducing power line impedance and load line impedance.



RADIATED EMISSION FCC Class B <3m>

Model Name	BR05-1516LB
Serial No.	ES1
Input	+5V
Load	±15V 167mA
DET.Mode	Peak
Limits	30MHz - 1000MHz
Band Number	3 Meas Mode : D
Antenna Mode	Horizontal , Vertical
Test Equip.	TR4172,TR14307

< BR05-1516LB> Output Noise

+15V167mA
1.4mVp-p
10mV/div
2µs/div

-15V167mA
1.7mVp-p
10mV/div
2µs/div

BR05-1516LB

BR05-1516LB Horizontal

BR05-1516LB Vertical

- Note!
This catalogue is an outline of the products.
When designing, be sure to refer to the data sheets.