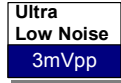


Bellnix® Ultra Low Noise, Small Size, Isolated Type DC-DC Converter

World Standard Analog Equipment

5 Watt BR-LB Series



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

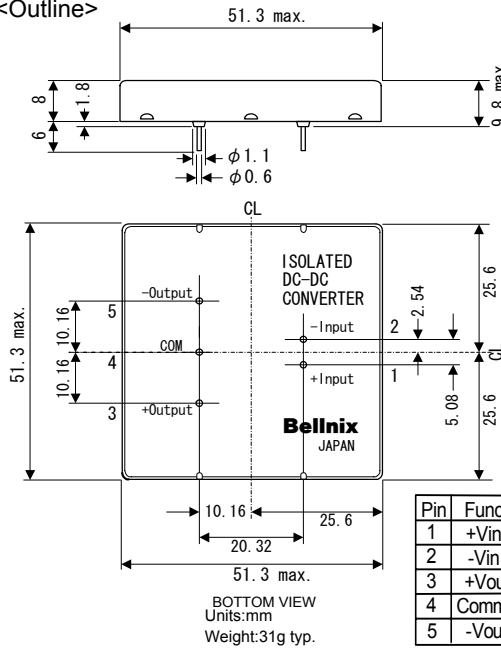
Input: 5V Output: ±12V, ±15V

- 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				

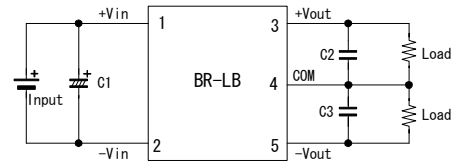
Note 1: Derating required for input voltages 5.25V or greater.

<Outline>



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

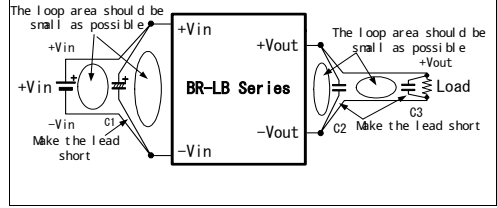
<Standard Connection Diagram>



- Recommended Capacitor

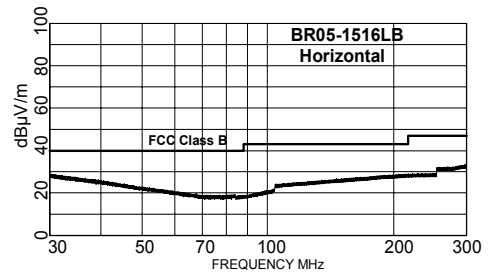
C1=100µF
C2,C3=1µF

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

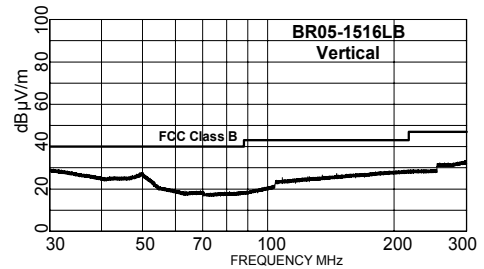
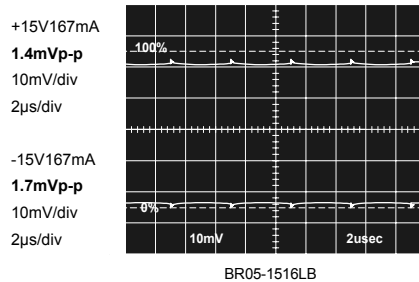


RADIATED EMISSION FCC Class B <3m>

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



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