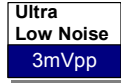


# Bellnix® Ultra Low Noise, Small Size, Isolated Type DC-DC Converter

World Standard Analog Equipment

## 5 Watt BR-LB Series



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

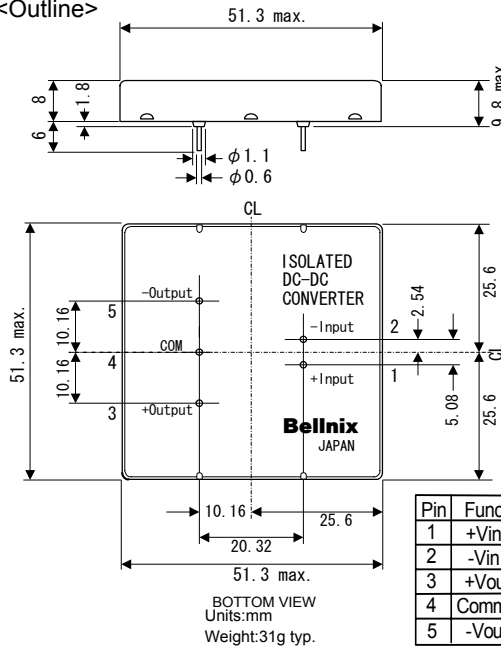
### Input: 5V Output: ±12V, ±15V

- 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.)
<b>BR05-1220LB</b>	4.75-6	+12/208, -12/-208	0.03	0.18	3	64
<b>BR05-1225LB</b>		+12/250, -12/-125				
<b>BR05-1516LB</b>		+15/167, -15/-167				
<b>BR05-1520LB</b>		+15/200, -15/-100				

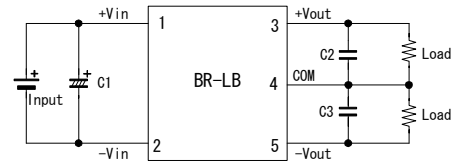
Note 1: Derating required for input voltages 5.25V or greater.

#### <Outline>



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

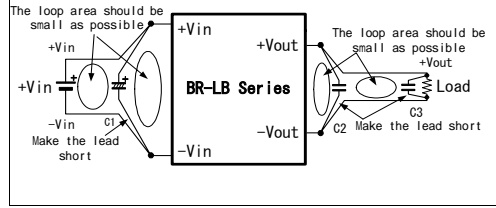
#### <Standard Connection Diagram>



#### - Recommended Capacitor

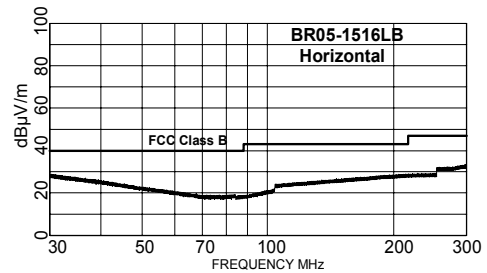
C1=100µF  
C2,C3=1µF

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

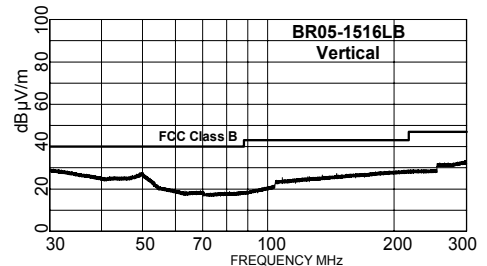
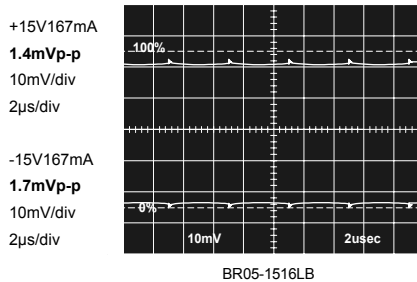


### RADIATED EMISSION FCC Class B <3m>

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.