

World Standard Analog Equipment



# 5 Watt VR-LB Series

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

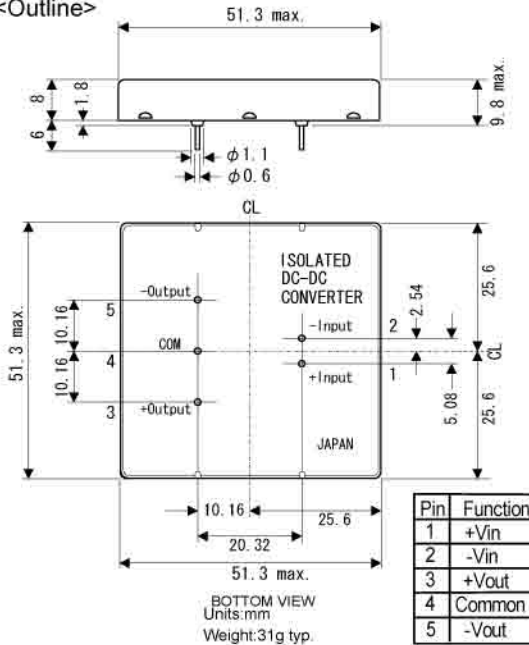
**Input: 5V Output: ±12V, ±15V**

- 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

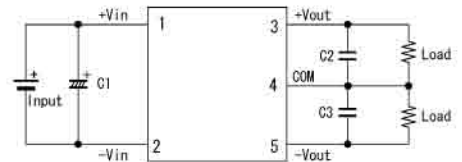
Models Series	Input V Vdc	Output +V/I, -V/I +Vdc/mA, -Vdc/mA	Line Reg % (typ.)	Load Reg % (typ.)	Ripple/ Noise mVpp(max.)	Efficiency % (typ.)
VR05-1220LB	4.75-6	+12/208, -12/-208	0.03	0.18	3	64
VR05-1225LB		+12/250, -12/-125				
VR05-1516LB		+15/167, -15/-167				
VR05-1520LB		+15/200, -15/-100				

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

<Outline>



<Standard Connection Diagram>

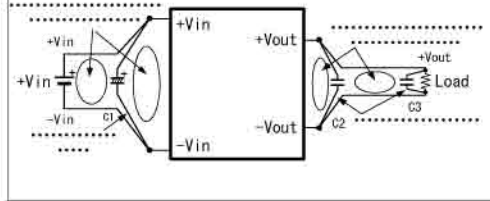


- Recommended Capacitor

C1=100µF

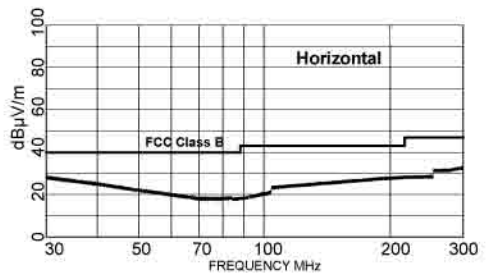
C2,C3=1µF

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

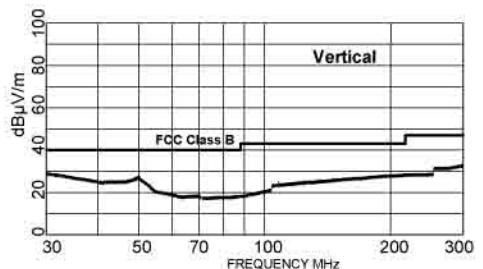
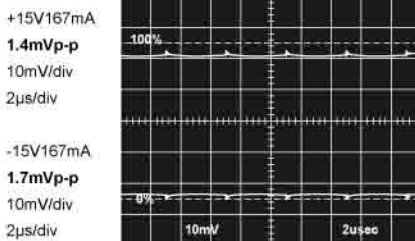


## RADIATED EMISSION FCC Class B <3m>

Model Name VR05-1516LB  
 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



## <VR05-1516LB> Output Noise



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