Excellent Integrated System Limited

Stocking Distributor

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Volgen/Division of Kaga Electronics USA
VR05-1516LB

For any questions, you can email us directly:
sales@integrated-circuit.com

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

World Standard Analog Equipment

5 Watt VR-LB Series

RoHS Compliance | Ultra Low Noise 3mVpp

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

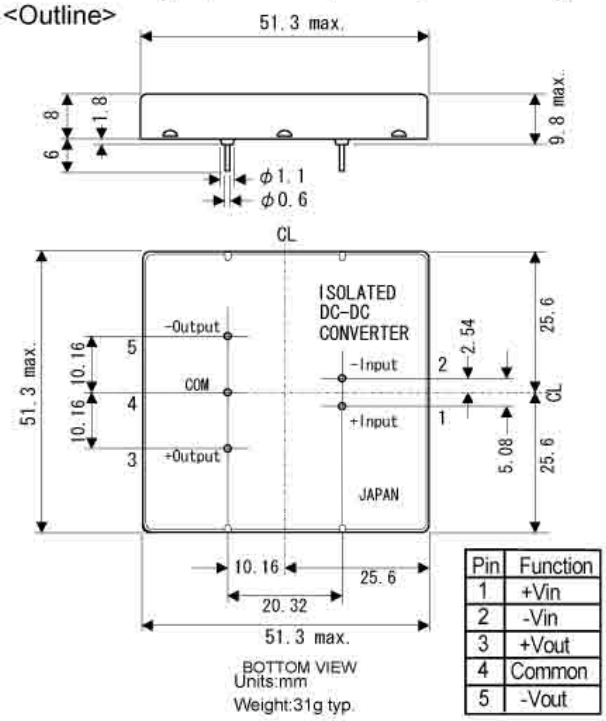
Input: 5V Output: ±12V, ±15V

- 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				

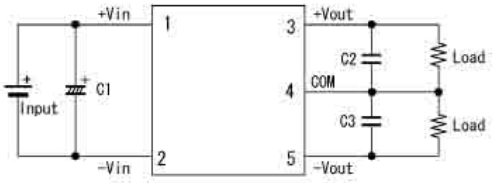
Note 1: Derating required for input voltages 5.25V or greater.

<Outline>

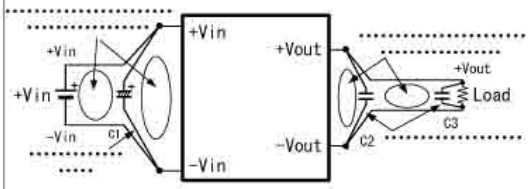


Pin	Function
1	+Vin
2	-Vin
3	+Vout
4	Common
5	-Vout

<Standard Connection Diagram>

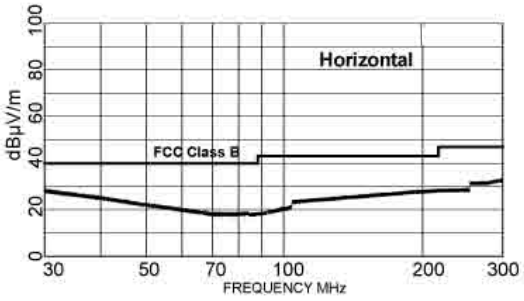


- Recommended Capacitor
  C1=100μF
  C2,C3=1μF
  External capacitors are not required, but noise can be lowered by reducing power line impedance, and load line impedance.



RADIATED EMISSION FCC Class B <3m>

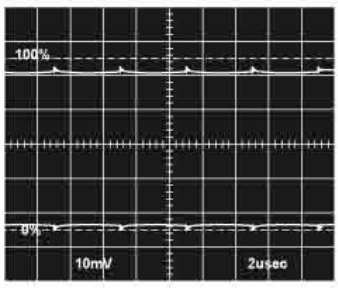
Model Name	VR05-1516LB
Serial No.	ES1
Input	+5V
Load	±15V 167mA
DET.Mode	Peak
Limits	30MHz - 1000MHz
Band Number	3 Meas Mode : D
Antenna Mode	Horizontal , Vertical
Test Equip.	TR4172,TR14307

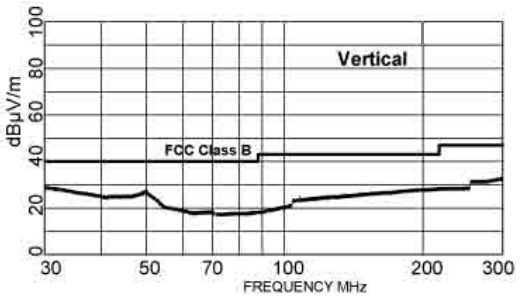


<VR05-1516LB> Output Noise

+15V167mA
1.4mVp-p
10mV/div
2μs/div

-15V167mA
1.7mVp-p
10mV/div
2μs/div





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