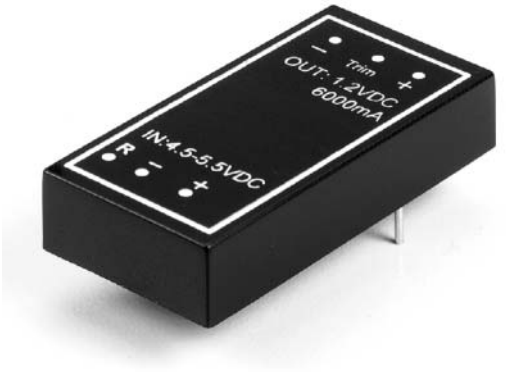
VBS20 Series DC-DC Converters



Features

- ·20W Non-Isolated Output
- ·Efficiency to 88%
- ·Constant frequency
- ·Over Current Protection
- ·Regulated outputs
- ·Under Input Voltage Protection
- ·Output Voltage Adjustment
- ·Remote On/Off Control

Model Number	Input Voltage	Output Voltage	Output Current	Input Current No Load	Input Current Full Load	Effic.	Case
VBS20-S5-1R2	4.5-5.5VDC	1.2VDC	6A	40mA	1895mA	76%	B
VBS20-S5-2R1	4.5-5.5VDC	2.1VDC	6A	40mA	3000mA	84%	B
VBS20-S5-2R5	4.5-5.5VDC	2.5VDC	6A	40mA	3530mA	85%	B
VBS20-S5-3R3	4.5-5.5VDC	3.3VDC	6A	40mA	4500mA	88%	B

Input

Input Voltage Range	5V	4.5V-5.5V
Input Filter Type		Capacitive
Remote Shutdown		Positive Logic

Output

Voltage Accuracy		±1% max.
External Trim Adj. Range		±10%
Ripple & Noise	20MHz BW,	75mV pk-pk., max
Temperature Coefficient		±0.05%/°C
Over Circuit Protection		Auto Recovery
Line Regulation[1]		±0.5% max
Load Regulation[2]		±0.5% max
Current Limit		120-150% Nominal Output

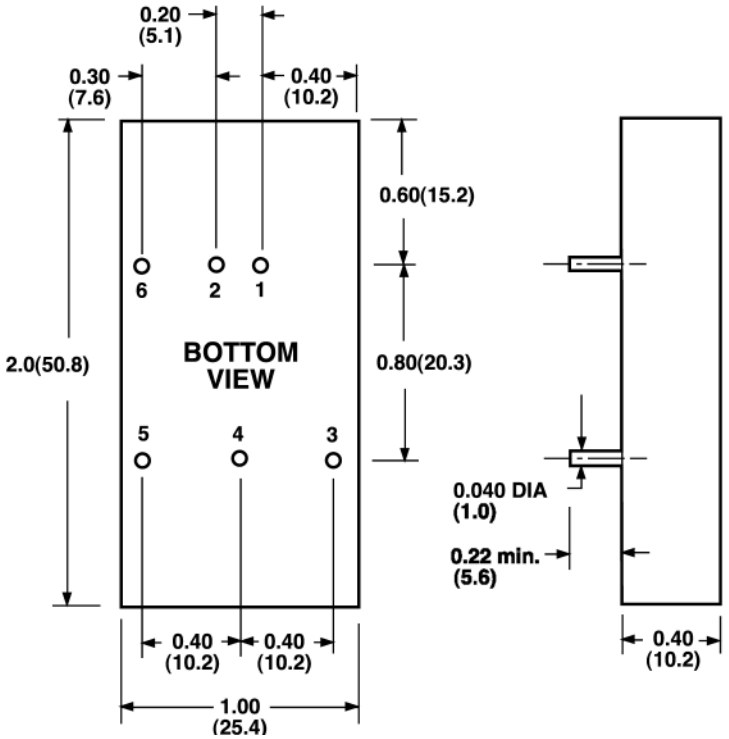
General Specifications

Efficiency	see table
Switching Frequency	200KHz, Type
Operating Temperature Range	-25°C to +71°C
Case Temperature	95°C max.
Storage Temperature	-40°C to +105°C
Dimensions	2.0x1.0x0.4 inches (50.8x25.4x10.2mm)
Case Material	Non-Conductive Black Plastic

NOTES:

1. Measured from high line to low line
2. Measured from full load to 10% load
3. Specification apply to model and require on 470uF input capacitor
4. Logic compatpbility with open collectorTTL or CMOS.

Case B



PIN CONNECTION

Pin	Function
1.	+Input
2.	-Input
3.	+Output
4.	Trim
5.	-Output
6.	Remote ON/OFF