



# VFB SERIES

## WIDE INPUT VOLTAGE RANGE

## 5 WATTS DC-DC CONVERTER

### FEATURES

- 2:1 WIDE INPUT VOLTAGES:9-18V,18-36V,36-72V
- 5 WATTS 5PIN DIL(1.0 x1.0x0.4inches) PACKAGE
- EFFICIENCY TO 82%
- PI INPUT FILTER

### GENERAL SPECIFICATIONS

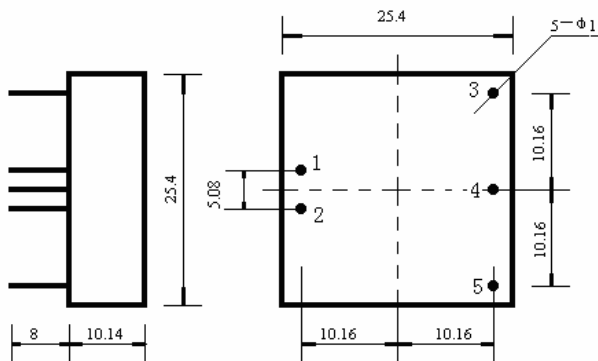
- SWITCHING FREQUENCY : 100KHz TYP.
- OUTPUT RIPPLE & NOISE : 100mVp-p(20MHz B.W.)
- ISOLATION VOLTAGE : 1000VDC
- ISOLATION RESISTANCE :  $10^9$  ohms
- STORAGE TEMPERATURE RANGE : -40°C TO 100°C
- OPERATING TEMPERATURE RANGE : -25°C TO +71°C
- SHORT CIRCUIT PROTECTION : CONTINUOUS
- CASE MATERIAL : BLACK COATED COPPER WITH NON-CONDUCTIVE BASE

### ELECTRICAL SPECIFICATIONS

- INPUT VOLTAGE RANGE :12V nominal ...9-18V  
:24V nominal ...18-36V  
:48V nominal ...36-72V
- OUTPUT VOLTAGE ACCURACY :±2%
- LINE REGULATION :±0.5%
- LOAD REGULATION(SINGLE) :±0.5% (F.L. to 10% Load)
- LOAD REGULATION(DUAL) :±1.0% (F.L. to 1 / 4 Load)
- EFFICIENCY :see table

PART NO.	INPUT (VDC)	OUTPUT (VDC)	OUTPUT (mA)	EFFICIENCY (%)
VFB1205YMD-5W	9-18VDC	5VDC	1000mA	75
VFB1209YMD-5W	9-18VDC	9VDC	556mA	77
VFB1212YMD-5W	9-18VDC	12VDC	420mA	78
VFB1215YMD-5W	9-18VDC	15VDC	330mA	80
VFB1224YMD-5W	9-18VDC	24VDC	200mA	81
VFB2405YMD-5W	18-36VDC	5VDC	1000mA	80
VFB2409YMD-5W	18-36VDC	9VDC	556mA	76
VFB2412YMD-5W	18-36VDC	12VDC	420mA	77
VFB2415YMD-5W	18-36VDC	15VDC	330mA	79
VFB2424YMD-5W	18-36VDC	24VDC	200mA	81
VFB4805YMD-5W	36-72VDC	5VDC	1000mA	77
VFB4809YMD-5W	36-72VDC	9VDC	556mA	79
VFB4812YMD-5W	36-72VDC	12VDC	420mA	81
VFB4815YMD-5W	36-72VDC	15VDC	330mA	81
VFB4824YMD-5W	36-72VDC	24VDC	200mA	80

### MARKINGS AND DIMENSIONS



### PIN CONNECTION

PIN	SINGLE
1	+INPUT
2	-INPUT
3	+OUTPUT
4	NC
5	-OUTPUT

Dimensions:inches/mm

Unless otherwise specified, all tolerances are  $\pm 0.005/\pm 0.13$