



# WRA SERIES

## WIDE INPUT VOLTAGE RANGE

## 10 WATTS DC-DC CONVERTER

### FEATURES

- 2:1 WIDE INPUT VOLTAGES:9-18V,18-36V,36-72V
- 10 WATTS (2x1x0.4inches) PACKAGE
- EFFICIENCY TO 80%
- P1 INPUT FILTER

### GENERAL SPECIFICATIONS

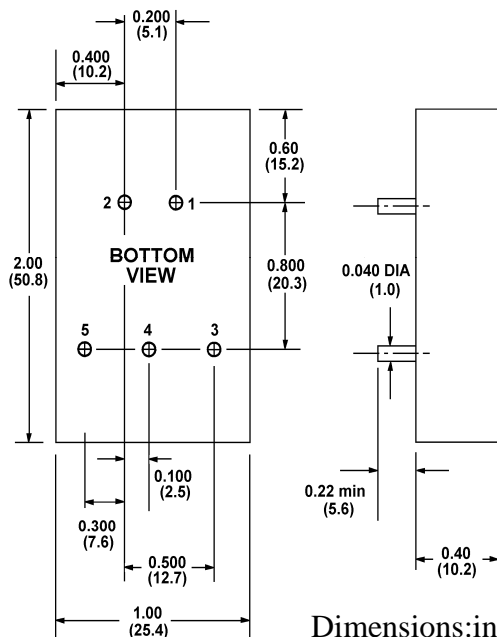
- SWITCHING FREQUENCY : 100KHz TYP.
- OUTPUT RIPPLE & NOISE : 100mVp-p(20MHz B.W.)
- ISOLATION VOLTAGE : 1500VDC
- ISOLATION RESISTANCE :  $10^9$  ohms
- STORAGE TEMPERATURE RANGE : -40°C TO 100°C
- OPERATING TEMPERATURE RANGE : -25°C TO +71°C
- SHORT CIRCUIT PROTECTION : CONTINUOUS
- CASE MATERIAL : 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%
- LOAD REGULATION(DUAL) :±2%
- EFFICIENCY :see table
- EMI/RFI :six-sided continuous shield

PART NO.	INPUT RANGE	OUTPUT VOLTAGE	OUTPUT CURRENT	EFFICIENCY (%)
WRA1205D-10W	9-18VDC	±5VDC	±1000mA	79
WRA1212D-10W	9-18VDC	±12VDC	±420mA	82
WRA1215D-10W	9-18VDC	±15VDC	±334mA	82
WRA2405D-10W	18-36VDC	±5VDC	±1000mA	81
WRA2412D-10W	18-36VDC	±12VDC	±420mA	81
WRA2415D-10W	18-36VDC	±15VDC	±334mA	81
WRA4805D-10W	36-72VDC	±5VDC	±1000mA	84
WRA4812D-10W	36-72VDC	±12VDC	±420mA	84
WRA4815D-10W	36-72VDC	±15VDC	±334mA	82

### MARKINGS AND DIMENSIONS



### PIN CONNECTION

PIN#	SINGLE	DUAL
1	+VIN	+VIN
2	-VIN	-VIN
3	+VOUT	+VOUT
4	No Pin	Common
5	-VOUT	-VOUT