



WRA SERIES

WIDE INPUT VOLTAGE RANGE

3 WATTS DC-DC CONVERTER

FEATURES

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

GENERAL SPECIFICATIONS

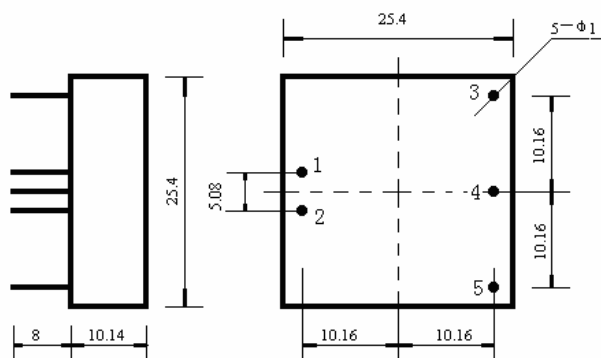
- SWITCHING FREQUENCY : 100KHz TYP.
- OUTPUT RIPPLE & NOISE : 100mVp-p(20MHz B.W.)
- ISOLATION VOLTAGE : 1000VDC
- ISOLATION RESISTANCE : 10^9 ohms
- STORAGE TEMPERATURE RANGE : -40°C TO 100°C
- OPERATING TEMPERATURE RANGE : -25°C TO +71°C
- SHORT CIRCUIT PROTECTION : CONTINUOUS
- CASE MATERIAL : BLACK 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 (%)
WRA0505YMD-3W	4.5-9VDC	±5VDC	±300mA	68
WRA0509YMD-3W	4.5-9VDC	±9VDC	±166mA	70
WRA0512YMD-3W	4.5-9VDC	±12VDC	±125mA	71
WRA0515YMD-3W	4.5-9VDC	±15VDC	±100mA	71
WRA1205YMD-3W	9-18VDC	±5VDC	±300mA	75
WRA1209YMD-3W	9-18VDC	±9VDC	±166mA	77
WRA1212YMD-3W	9-18VDC	±12VDC	±125mA	78
WRA1215YMD-3W	9-18VDC	±15VDC	±100mA	80
WRA2405YMD-3W	18-36VDC	±5VDC	±300mA	80
WRA2409YMD-3W	18-36VDC	±9VDC	±166mA	76
WRA2412YMD-3W	18-36VDC	±12VDC	±125mA	77
WRA2415YMD-3W	18-36VDC	±15VDC	±100mA	79
WRA4805YMD-3W	36-72VDC	±5VDC	±300mA	77
WRA4809YMD-3W	36-72VDC	±9VDC	±166mA	79
WRA4812YMD-3W	36-72VDC	±12VDC	±125mA	81
WRA4815YMD-3W	36-72VDC	±15VDC	±100mA	81

MARKINGS AND DIMENSIONS



PIN CONNECTION

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

Dimensions:inches/mm

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