



WRB SERIES 1 WATT, SIP 8PIN, SINGLE OUTPUT REGULATED ISOLATION 1500VDC DC-DC CONVERTER

FEATURES

- 2:1 WIDE INPUT VOLTAGES RANGE
- EFFICIENCY TO 80%
- UL 94V-0 PACKAGE MATERIAL
- CONTINUOUS SHORT CIRCUIT PROTECTION WITH CURRENT FOLDBACK
- LOW RIPPLE AND NOISE

GENERAL SPECIFICATIONS

- RIPPLE & NOISE (VOUT = 5-9V TYPES) : 100mVp-p MAX (20MHz B.W.)
- RIPPLE & NOISE (VOUT = 12-15V TYPES) : 1% OF VOUT
- ISOLATION VOLTAGE : 1.5KVDC
- SWITCHING FREQUENCY : 50KHz MIN
- SHORT CIRCUIT PROTECTION : CONTINUOUS
- OPERATING TEMPERATURE : -40°C TO 85°C
- STORAGE TEMPERATURE RANGE : -50°C TO 130°C

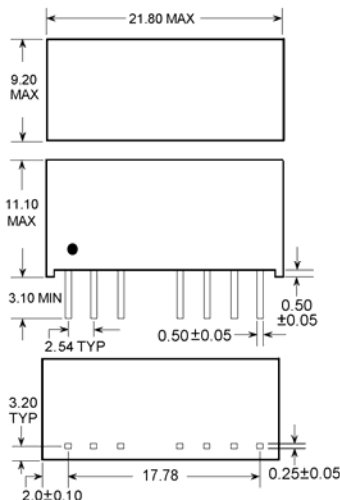
ELECTRICAL SPECIFICATIONS

- INPUT VOLTAGE RANGE : 2 : 1
- OUTPUT VOLTAGE TOLERANCE : ±3%
- LINE REGULATION (REGULATED) : 0.5% MAX
- LOAD REGULATION (REGULATED) : 0.8% MAX
- EFFICIENCY : UP TO 81%

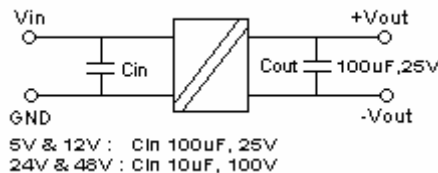
(Typical at nominal input, rated load and 25°C unless otherwise specified)

PART NO.	INPUT VOLTAGE RANGE	OUTPUT VOLTAGE RANGE	OUTPUT CURRENT	EFFICIENCY (%)	MTBF KHrs
WRB0505C(K)S-1W	5-9VDC	5VDC	200mA	63	>1000
WRB0509C(K)S-1W	5-9VDC	9VDC	111mA	68	
WRB0512C(K)S-1W	5-9VDC	12VDC	167mA	69	
WRB0515C(K)S-1W	5-9VDC	15VDC	83mA	71	
WRB1205C(K)S-1W	9-18VDC	5VDC	200mA	71	
WRB1209C(K)S-1W	9-18VDC	9VDC	111mA	76	
WRB1212C(K)S-1W	9-18VDC	12VDC	167mA	78	
WRB1215C(K)S-1W	9-18VDC	15VDC	83mA	79	
WRB2405C(K)S-1W	18-36VDC	5VDC	200mA	71	
WRB2409C(K)S-1W	18-36VDC	9VDC	111mA	78	
WRB2412C(K)S-1W	18-36VDC	12VDC	167mA	79	
WRB2415C(K)S-1W	18-36VDC	15VDC	83mA	81	
WRB4805C(K)S-1W	36-72VDC	5VDC	200mA	70	
WRB4809C(K)S-1W	36-72VDC	9VDC	111mA	77	
WRB4812C(K)S-1W	36-72VDC	12VDC	167mA	79	
WRB4815C(K)S-1W	36-72VDC	15VDC	83mA	80	

MARKINGS AND DIMENSIONS



RECOMMENDED TEST CIRCUIT



PIN CONNECTION

PIN	SINGLE OUTPUT
1	-INPUT
2	+INPUT
3	CTRL- Control input can (can be left open)
4	NO PIN
5	NE- No external connection allowed
6	+OUTPUT
7	-OUTPUT
8	CS Optional external capacitor