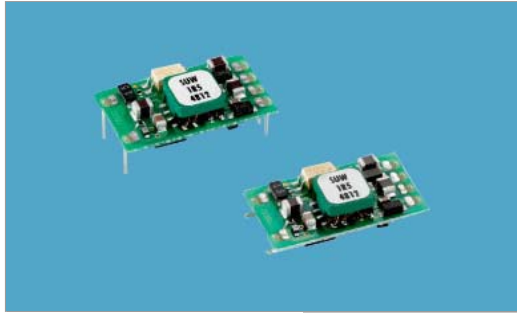


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## SUW1R5



### Features

- High reliability : not built-in aluminum and tantalum electrolytic capacitor
- SMD mounting type and through-hole mounting type
- High efficiency (synchronous rectifier circuit)
- Built-in Over Current Protection
- RoHS Compliant

### Safety Agency Approvals

UL1950, C-UL, EN60950

### CE Markings

Low Voltage Directive

**5 year warranty(refer to Instruction Manual)**

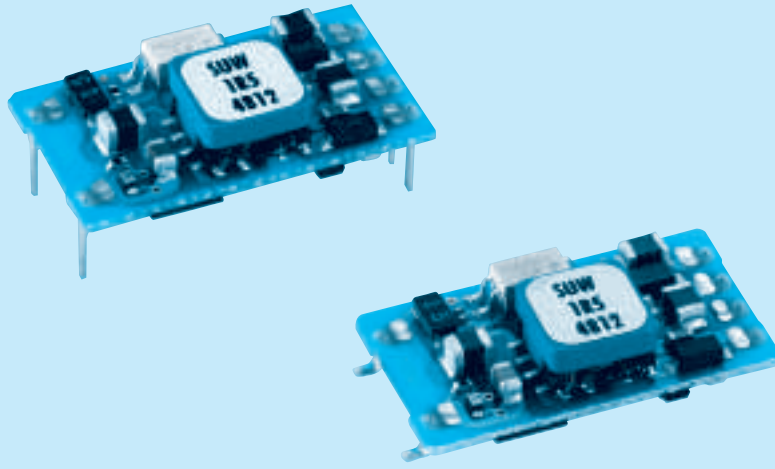
Model	Input Voltage [V]	Output Wattage [W]	DC Output [V/A]
SUW1R50512	DC 4.5 - 9	1.56	-12 - 24V 0.065A
SUW1R50515	DC 4.5 - 9	1.5	-15 - 30V 0.05 - 0.5A
SUW1R51212	DC 9 - 18	1.56	-12 - 24V 0.065A
SUW1R51215	DC 9 - 18	1.5	-15 - 30V 0.05A
SUW1R52412	DC 18 - 36	1.56	-12 - 24V 0.065A
SUW1R52415	DC 18 - 36	1.5	-15 - 30V 0.05A
SUW1R54812	DC 36 - 76	1.56	-12 - 24V 0.065A
SUW1R54815	DC 36 - 76	1.5	-15 - 30V 0.05A

# SUWR5

SU W 1R5 12 12 B P

① ② ③ ④ ⑤ ⑥ ⑦


  
 RoHS



- ① Series name
- ② Dual output
- ③ Output wattage
- ④ Input voltage
- ⑤ Output voltage
- ⑥ Mounting type  
B : SMD  
C : DIP
- ⑦ Packing form  
Blank: Plastic cover  
P : Pallet (SMD type)

MODEL	SUW1R50512	SUW1R50515	SUW1R51212	SUW1R51215	SUW1R52412	SUW1R52415	SUW1R54812	SUW1R54815	
MAX OUTPUT WATTAGE[W]	1.56	1.5	1.56	1.5	1.56	1.5	1.56	1.5	
DC OUTPUT	VOLTAGE[V]*1	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30
	CURRENT[A]	0.065	0.05	0.065	0.05	0.065	0.05	0.065	0.05

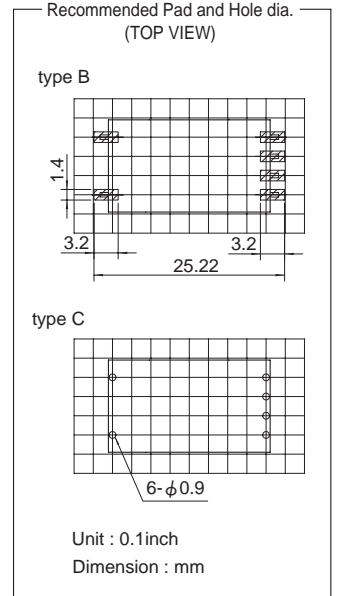
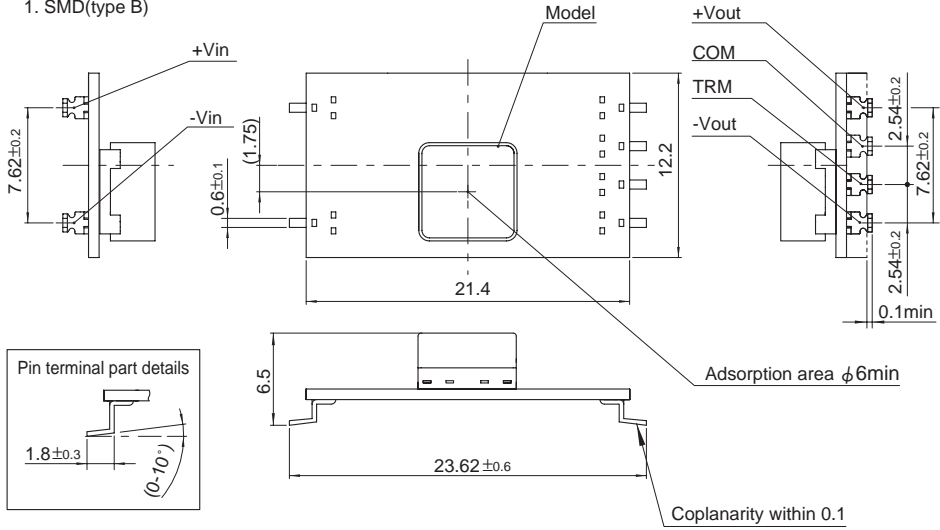
## SPECIFICATIONS

	MODEL	SUW1R50512	SUW1R50515	SUW1R51212	SUW1R51215	SUW1R52412	SUW1R52415	SUW1R54812	SUW1R54815	
INPUT	VOLTAGE[V]	DC4.5 - 9		DC9 - 18		DC18 - 36		DC36 - 76		
	CURRENT[A]	*2 0.433typ	0.417typ	0.173typ	0.167typ	0.087typ	0.083typ	0.043typ	0.042typ	
	EFFICIENCY[%]	*2 72typ	72typ	75typ	75typ	75typ	75typ	75typ	75typ	
OUTPUT	VOLTAGE[V]	±12(+24)	±15(+30)	±12(+24)	±15(+30)	±12(+24)	±15(+30)	±12(+24)	±15(+30)	
	CURRENT[A]	0.065	0.05	0.065	0.05	0.065	0.05	0.065	0.05	
	LINE REGULATION[mV]	60max	75max	60max	75max	60max	75max	60max	75max	
	LOAD REGULATION[mV]	600max	750max	600max	750max	600max	750max	600max	750max	
	RIPPLE[mVp-p]	-20 to +55°C *3	120max	120max	120max	120max	120max	120max	120max	120max
		-40 to -20°C *3	150max	150max	150max	150max	150max	150max	150max	150max
	RIPPLE NOISE[mVp-p]	-20 to +55°C *3	150max	150max	150max	150max	150max	150max	150max	150max
		-40 to -20°C *3	200max	200max	200max	200max	200max	200max	200max	200max
	TEMPERATURE REGULATION[mV]	-20 to +55°C	150max	180max	150max	180max	150max	180max	150max	180max
		-40 to +55°C	240max	290max	240max	290max	240max	290max	240max	290max
DRIFT[mV]	*4	50max	60max	50max	60max	50max	60max	50max	60max	
START-UP TIME[ms]	20max (Minimum input, Io=100%)									
VOLTAGE ADJUSTMENT RANGE	Fixed (TRM pin open) ±5% adjustable by external VR									
VOLTAGE SETTING[V] (±5%)	11.40 - 12.60	14.25 - 15.75	11.40 - 12.60	14.25 - 15.75	11.40 - 12.60	14.25 - 15.75	11.40 - 12.60	14.25 - 15.75		
OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically									
ISOLATION	INPUT-OUTPUT	AC500V 1minute. Cutoff current = 10mA. DC500V 50MΩ min (20±15°C)								
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-40 to +85°C, 20 - 95%RH (Non condensing) (Required Derating), 3,000m (10,000feet) max								
	STORAGE TEMP., HUMID. AND ALTITUDE	-40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max								
	VIBRATION	10 - 55Hz, 98.0m/s <sup>2</sup> (10G), 3minutes period, 60minutes each along X, Y and Z axis								
	IMPACT	490.3m/s <sup>2</sup> (50G), 11ms, once each along X, Y and Z axis								
SAFETY	AGENCY APPROVALS	UL60950-1, C-UL, EN60950-1								
OTHERS	CASE SIZE/WEIGHT	21.4 × 6.5 × 12.2mm (W × H × D) / 2g max								
	COOLING METHOD	Convection/Forced air								

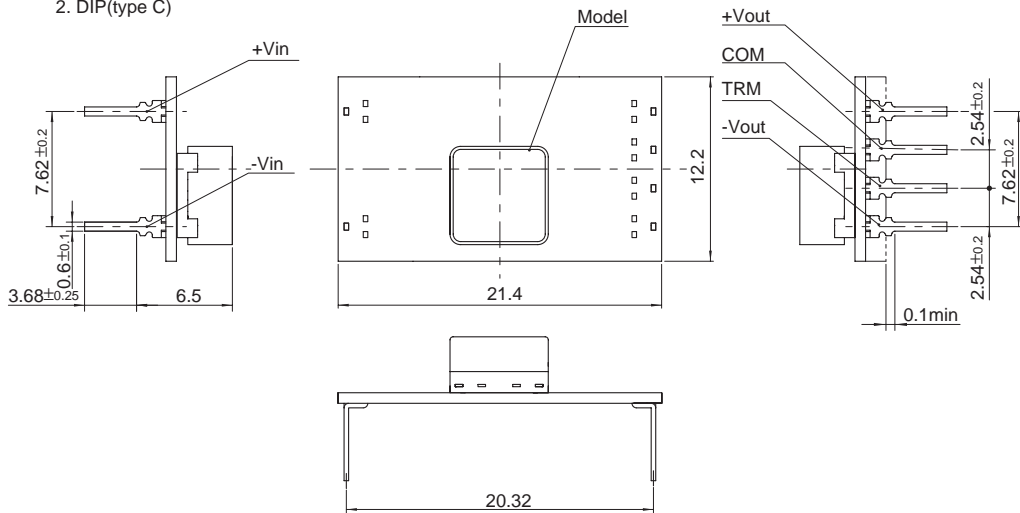
\*1 Output pins can be connected in series to make a 24V/30V output.  
 \*2 Rated input 5V, 12V, 24V or 48V DC Io=100%  
 \*3 Ripple and Ripple Noise is measured by using measuring board with capacitor with in 25mm from output pin terminals.  
 \*4 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.  
 \* Parallel operation with other model is not possible.

External view

1. SMD(type B)



2. DIP(type C)



- ※ Tolerance  $\pm 0.5$
- ※ Dimensions in mm
- ※ Pin terminal thickness :  $0.3 \pm 0.1$
- ※ Pin terminal material : Copper alloy
- ※ Plating treatment of terminal : Lead free plating
- ※ Mass 2g less