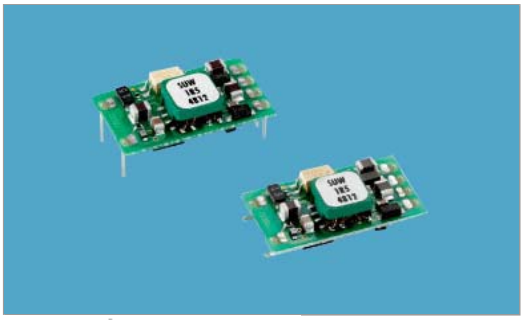
SUW1R5



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)

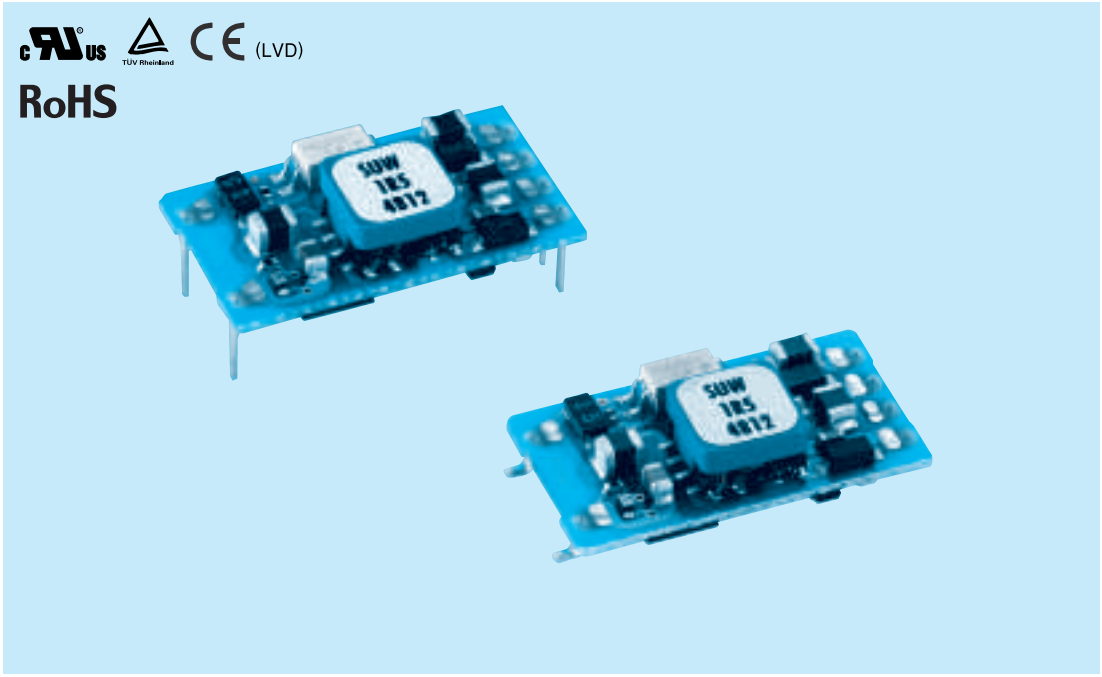
Model	Input Voltage [V]	Output Wattage [W]	DC Output [V / A]
SUW1R50512	DC 4.5 - 9	1.56	-12 - 24V 0.065A
SUW1R50515	DC 4.5 - 9	1.5	-15 - 30V 0.05 - 0.5A
SUW1R51212	DC 9 - 18	1.56	-12 - 24V 0.065A
SUW1R51215	DC 9 - 18	1.5	-15 - 30V 0.05A
SUW1R52412	DC 18 - 36	1.56	-12 - 24V 0.065A
SUW1R52415	DC 18 - 36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

COSEL **On-board type**

SUW1R5

Ordering information

SU	W	1R5	12	12	B	P
①	②	③	④	⑤	⑥	⑦



①Series name
②Dual output
③Output wattage
④Input voltage
⑤Output voltage
⑥Mounting type
B :SMD
C :DIP
⑦Packing 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

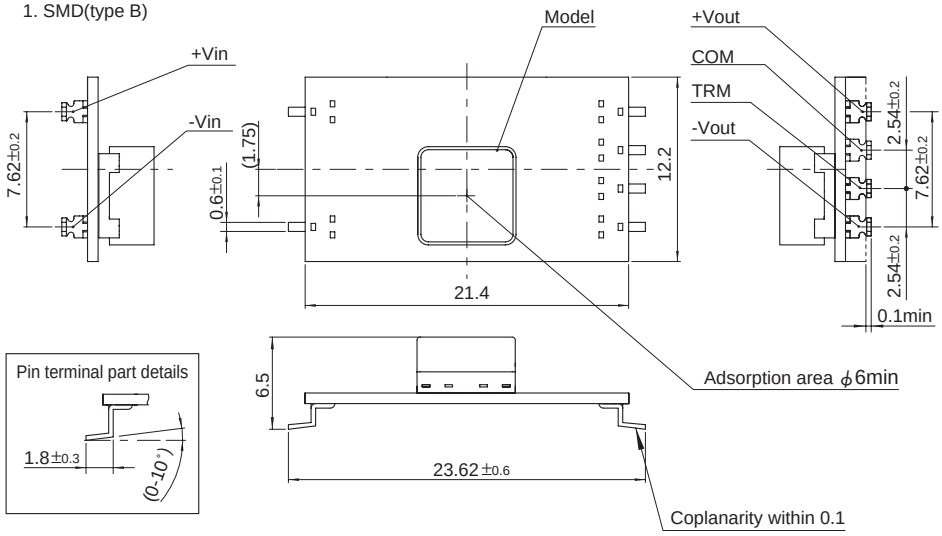
SPECIFICATIONS

	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℃ *3	120max	120max	120max	120max	120max	120max	120max	120max
		-40 to -20℃ *3	150max	150max	150max	150max	150max	150max	150max	150max
	RIPPLE NOISE[mVp-p]	-20 to +55℃ *3	150max	150max	150max	150max	150max	150max	150max	150max
		-40 to -20℃ *3	200max	200max	200max	200max	200max	200max	200max	200max
	TEMPERATURE REGULATION[mV]	-20 to +55℃	150max	180max	150max	180max	150max	180max	150max	180max
		-40 to +55℃	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
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically							
ISOLATION	INPUT-OUTPUT		AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)							
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		-40 to +85℃, 20 - 95%RH (Non condensing) (Required Derating), 3,000m (10,000feet) max							
	STORAGE TEMP.,HUMID.AND ALTITUDE		-40 to +100℃, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max							
	VIBRATION		10 - 55Hz, 98.0m/s² (10G), 3minutes period, 60minutes each along X, Y and Z axis							
	IMPACT		490.3m/s² (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							

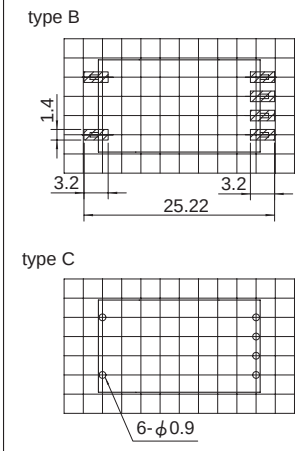
*1 Output pins can be connected in series to make a 24V/30V output.
*2 Rated input 5V, 12V, 24V or 48V DC Io=100%
*3 Ripple and Ripple Noise is measured by using measuring board with capacitor with in 25mm from output pin terminals.
*4 Drift is the change in DC output for an eight hour period after a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

External view

1. SMD(type B)

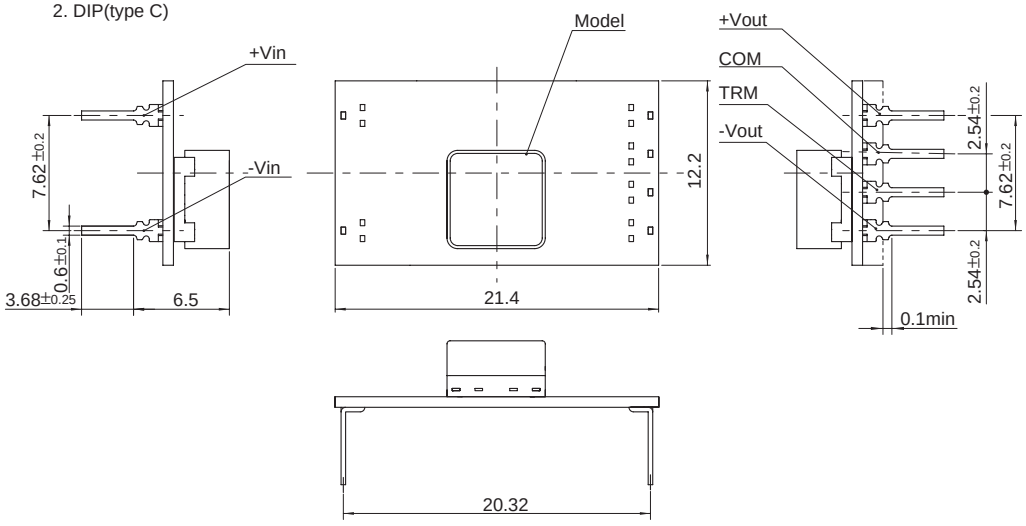


Recommended Pad and Hole dia.
(TOP VIEW)



Unit : 0.1inch
Dimension : mm

2. DIP(type C)



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

SU·SUC