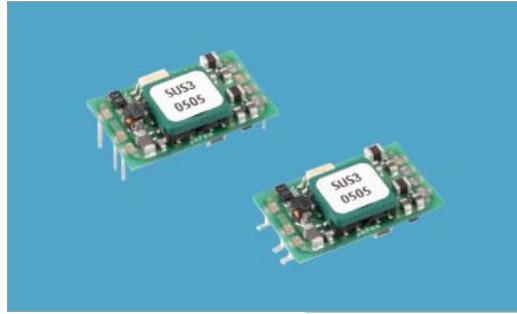


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SUS3



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

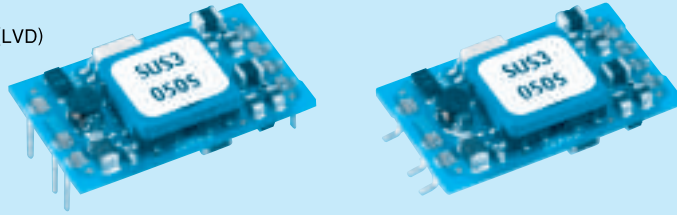
UL1950, C-UL, EN60950

CE Markings

Low Voltage Directive

5 year warranty(refer to Instruction Manual)

Model	Input Voltage [V]	Output Wattage [W]	DC Output [V/A]
SUS30505	DC 4.5 - 9	3	5V 0.6A
SUS30512	DC 4.5 - 9	3	12V 0.25A
SUS30515	DC 4.5 - 9	3	15V 0.2A
SUS3053R3	DC 4.5 - 9	1.98	3.3V 0.6A
SUS31205	DC 9 - 18	3	5V 0.6A
SUS31212	DC 9 - 18	3	12V 0.25A
SUS31215	DC 9 - 18	3	15V 0.2A
SUS3123R3	DC 9 - 18	1.98	3.3V 0.6A
SUS32405	DC 18 - 36	3	5V 0.6A
SUS32412	DC 18 - 36	3	12V 0.25A
SUS32415	DC 18 - 36	3	15V 0.2A
SUS3243R3	DC 18 - 36	1.98	3.3V 0.6A
SUS34805	DC 36 - 76	3	5V 0.6A
SUS34812	DC 36 - 76	3	12V 0.25A
SUS34815	DC 36 - 76	3	15V 0.2A
SUS3483R3	DC 36 - 76	1.98	3.3V 0.6A



- ① Series name
- ② Single 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)
- ⑧ Optional
G : Capacitor between Input and Output is removed.

MODEL	SUS3053R3	SUS30505	SUS30512	SUS30515	SUS3123R3	SUS31205	SUS31212	SUS31215
MAX OUTPUT WATTAGE[W]	1.98	3	3	3	1.98	3	3	3
DC OUTPUT	VOLTAGE[V] *1	3.3	5	12	15	3.3	5	12
	CURRENT[A]	0.6	0.6	0.25	0.2	0.6	0.6	0.2

SPECIFICATIONS

	MODEL	SUS3053R3	SUS30505	SUS30512	SUS30515	SUS3123R3	SUS31205	SUS31212	SUS31215
INPUT	VOLTAGE[V]	DC4.5 - 9				DC9 - 18			
	CURRENT[A] *2	0.536typ	0.780typ	0.760typ	0.760typ	0.218typ	0.317typ	0.309typ	0.313typ
	EFFICIENCY[%] *2	74typ	77typ	79typ	79typ	76typ	79typ	81typ	80typ
OUTPUT	VOLTAGE[V]	3.3	5	12	15	3.3	5	12	15
	CURRENT[A]	0.6	0.6	0.25	0.2	0.6	0.6	0.25	0.2
	LINE REGULATION[mV]	20max	20max	48max	60max	20max	20max	48max	60max
	LOAD REGULATION[mV]	40max	40max	100max	120max	40max	40max	100max	120max
	RIPPLE[mVp-p]	-20 to +55°C *3	80max	80max	120max	120max	80max	80max	120max
		-40 to -20°C *3	120max	120max	150max	150max	120max	120max	150max
	RIPPLE NOISE[mVp-p]	-20 to +55°C *3	120max	120max	150max	150max	120max	120max	150max
		-40 to -20°C *3	200max	200max	200max	200max	200max	200max	200max
	TEMPERATURE REGULATION[mV]	-20 to +55°C	50max	50max	150max	180max	50max	50max	150max
		-40 to +55°C	80max	80max	240max	290max	80max	80max	240max
PROTECTION CIRCUIT AND OTHERS	DRIFT[mV] *4	20max	20max	48max	60max	20max	20max	48max	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] (±3%)	3.21 - 3.42	4.90 - 5.21	11.64 - 12.36	14.55 - 15.45	3.21 - 3.42	4.90 - 5.21	11.64 - 12.36	14.55 - 15.45
	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically							
	REMOTE ON/OFF	Provided (Negative logic L : ON, H : OFF)							

MODEL	SUS3243R3	SUS32405	SUS32412	SUS32415	SUS3483R3	SUS34805	SUS34812	SUS34815
MAX OUTPUT WATTAGE[W]	1.98	3	3	3	1.98	3	3	3
DC OUTPUT	VOLTAGE[V] *1	3.3	5	12	15	3.3	5	12
	CURRENT[A]	0.6	0.6	0.25	0.2	0.6	0.6	0.2

SPECIFICATIONS

	MODEL	SUS3243R3	SUS32405	SUS32412	SUS32415	SUS3483R3	SUS34805	SUS34812	SUS34815
INPUT	VOLTAGE[V]	DC18 - 36				DC36 - 76			
	CURRENT[A] *2	0.110typ	0.159typ	0.155typ	0.157typ	0.056typ	0.080typ	0.078typ	0.078typ
	EFFICIENCY[%] *2	75typ	79typ	81typ	80typ	74typ	79typ	81typ	81typ
OUTPUT	VOLTAGE[V]	3.3	5	12	15	3.3	5	12	15
	CURRENT[A]	0.6	0.6	0.25	0.2	0.6	0.6	0.25	0.2
	LINE REGULATION[mV]	20max	20max	48max	60max	20max	20max	48max	60max
	LOAD REGULATION[mV]	40max	40max	100max	120max	40max	40max	100max	120max
	RIPPLE[mVp-p]	-20 to +55°C *3	80max	80max	120max	120max	80max	80max	120max
		-40 to -20°C *3	120max	120max	150max	150max	120max	120max	150max
	RIPPLE NOISE[mVp-p]	-20 to +55°C *3	120max	120max	150max	150max	120max	120max	150max
		-40 to -20°C *3	200max	200max	200max	200max	200max	200max	200max
	TEMPERATURE REGULATION[mV]	-20 to +55°C	50max	50max	150max	180max	50max	50max	150max
		-40 to +55°C	80max	80max	240max	290max	80max	80max	240max
PROTECTION CIRCUIT AND OTHERS	DRIFT[mV] *4	20max	20max	48max	60max	20max	20max	48max	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] (±3%)	3.21 - 3.42	4.90 - 5.21	11.64 - 12.36	14.55 - 15.45	3.21 - 3.42	4.90 - 5.21	11.64 - 12.36	14.55 - 15.45
	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically							
	REMOTE ON/OFF	Provided (Negative logic L : ON, H : OFF)							

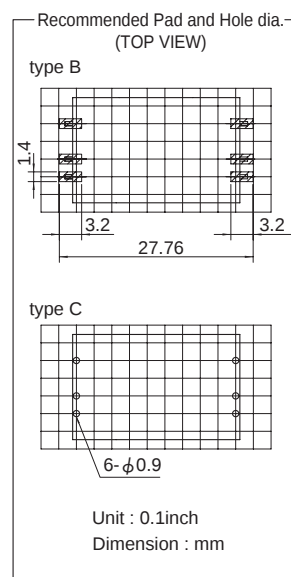
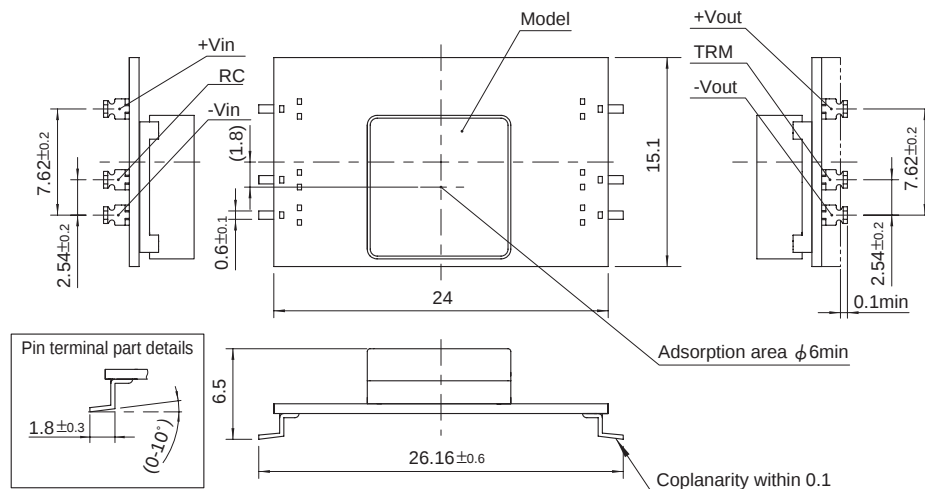
GENERAL SPECIFICATIONS

ISOLATION	INPUT-OUTPUT	AC500V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20 $\pm$ 15 $^{\circ}$ C)
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-40 to +85 $^{\circ}$ C, 20 - 95%RH (Non condensing) (Required Derating), 3,000m (10,000feet) max
	STORAGE TEMP., HUMID. AND ALTITUDE	-40 to +100 $^{\circ}$ C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max
	VIBRATION	10 - 55Hz, 98.0m/s ² (10G), 3minutes period, 60minutes each along X, Y and Z axis
	IMPACT	490.3m/s ² (50G), 11ms, once each along X, Y and Z axis
SAFETY	AGENCY APPROVALS	UL60950-1, C-UL, EN60950-1
OTHERS	CASE SIZE/WEIGHT	24 X 6.5 X 15.1mm (W X H X D) / 3g max
	COOLING METHOD	Convection/Forced air

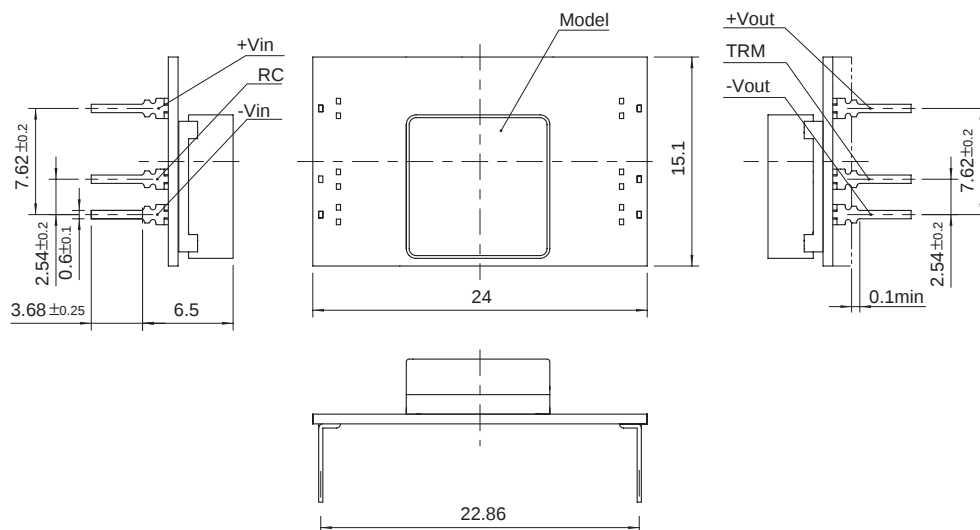
- *1 SUW3xx12/SUW3xx15 is available as single output, +24V/+30V.
- *2 Rated input 5V, 12V, 24V or 48V DC Io=100%
- *3 Ripple and Ripple Noise is measured by using measuring board with capacitor with in 25mm from output pin terminals.
- *4 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25 $^{\circ}$ C.
- * Parallel operation with other model is not possible.

External view

1. SMD(type B)



2. DIP(type C)



- ※ Tolerance ± 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 3g less