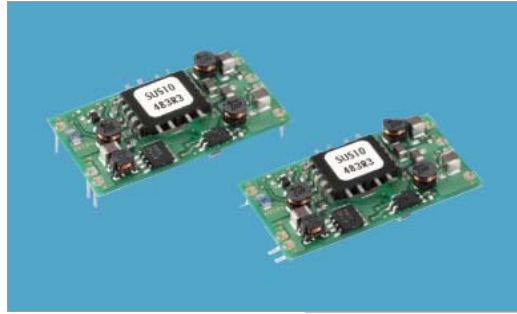


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SUS10



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

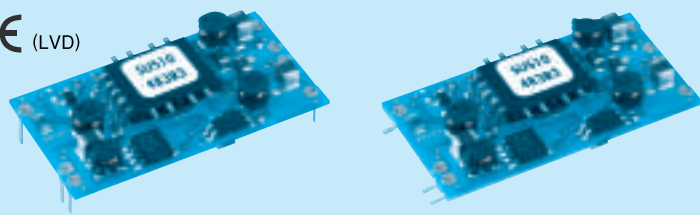
Low Voltage Directive

5 year warranty(refer to Instruction Manual)

Model	Input Voltage [V]	Output Wattage [W]	DC Output [V/A]
SUS100505	DC 4.5 - 9	10	5V 2A
SUS100512	DC 4.5 - 9	10.8	12V 0.9A
SUS100515	DC 4.5 - 9	10.5	15V 0.7A
SUS10053R3	DC 4.5 - 9	8.58	3.3V 2.6A
SUS101205	DC 9 - 18	10	5V 2A
SUS101212	DC 9 - 18	10.8	12V 1A
SUS101215	DC 9 - 18	10.5	15V 0.8A
SUS10123R3	DC 9 - 18	8.58	3.3V 2.6A
SUS102405	DC 18 - 36	10	5V 2A
SUS102412	DC 18 - 36	12	12V 1A
SUS102415	DC 18 - 36	12	15V 0.8A
SUS10243R3	DC 18 - 36	8.58	3.3V 2.6A
SUS104805	DC 36 - 76	10	5V 2A
SUS104812	DC 36 - 76	12	12V 1A
SUS104815	DC 36 - 76	12	15V 0.8A
SUS10483R3	DC 36 - 76	8.58	3.3V 2.6A

SU S 10 12 05 B P - □

① ② ③ ④ ⑤ ⑥ ⑦ ⑧



- 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	SUS10053R3	SUS100505	SUS100512	SUS100515	SUS10123R3	SUS101205	SUS101212	SUS101215
MAX OUTPUT WATTAGE[W]	8.58	10	10.8	10.5	8.58	10	12	12
DC OUTPUT	VOLTAGE[V] *1	3.3	5	12	15	3.3	5	12
	CURRENT[A]	2.6	2	0.9	0.7	2.6	2	1
								0.8

SPECIFICATIONS

	MODEL	SUS10053R3	SUS100505	SUS100512	SUS100515	SUS10123R3	SUS101205	SUS101212	SUS101215
INPUT	VOLTAGE[V]	DC4.5 - 9				DC9 - 18			
	CURRENT[A] *2	2.12typ	2.41typ	2.54typ	2.47typ	0.872typ	0.980typ	1.15typ	1.15typ
	EFFICIENCY[%] *2	81typ	83typ	85typ	85typ	82typ	85typ	87typ	87typ
OUTPUT	VOLTAGE[V]	3.3	5	12	15	3.3	5	12	15
	CURRENT[A]	2.6	2	0.9	0.7	2.6	2	1	0.8
	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	SUS10243R3	SUS102405	SUS102412	SUS102415	SUS10483R3	SUS104805	SUS104812	SUS104815
MAX OUTPUT WATTAGE[W]	8.58	10	12	12	8.58	10	12	12
DC OUTPUT	VOLTAGE[V] *1	3.3	5	12	15	3.3	5	12
	CURRENT[A]	2.6	2	1	0.8	2.6	2	1
								0.8

SPECIFICATIONS

	MODEL	SUS10243R3	SUS102405	SUS102412	SUS102415	SUS10483R3	SUS104805	SUS104812	SUS104815
INPUT	VOLTAGE[V]	DC18 - 36				DC36 - 76			
	CURRENT[A] *2	0.436typ	0.490typ	0.575typ	0.575typ	0.218typ	0.245typ	0.287typ	0.287typ
	EFFICIENCY[%] *2	82typ	85typ	87typ	87typ	82typ	85typ	87typ	87typ
OUTPUT	VOLTAGE[V]	3.3	5	12	15	3.3	5	12	15
	CURRENT[A]	2.6	2	1	0.8	2.6	2	1	0.8
	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	39.2 $\times$ 6.5 $\times$ 21.0mm (W $\times$ H $\times$ D) / 6g max
	COOLING METHOD	Convection/Forced air

*1 SUW10xx12/SUW10xx15 is available as single output, +24V/+30V.

*2 Rated input 5V, 12V, 24V or 48V DC $I_o=100\%$

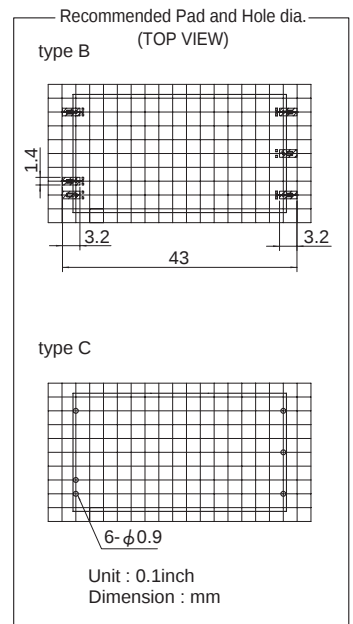
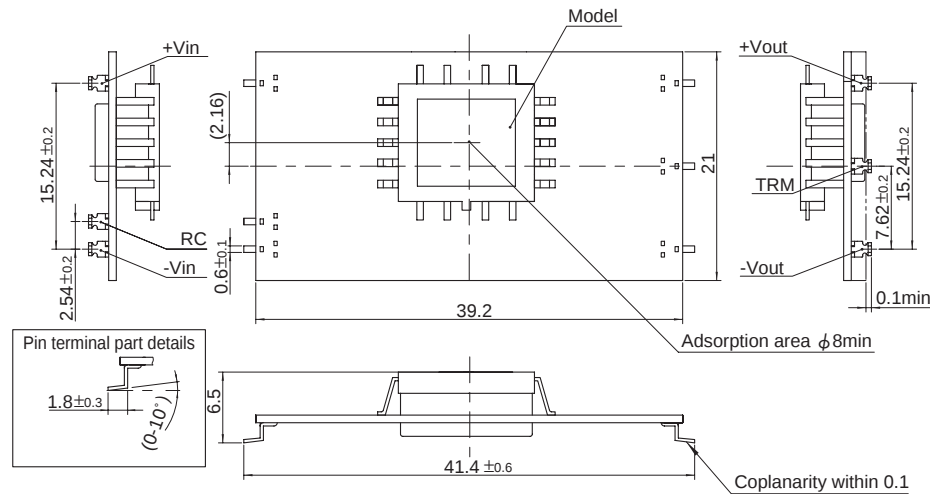
*3 Ripple and Ripple Noise is measured by using measuring board with capacitor with in 25mm from output pin terminals.

*4 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25 $^{\circ}$ C.

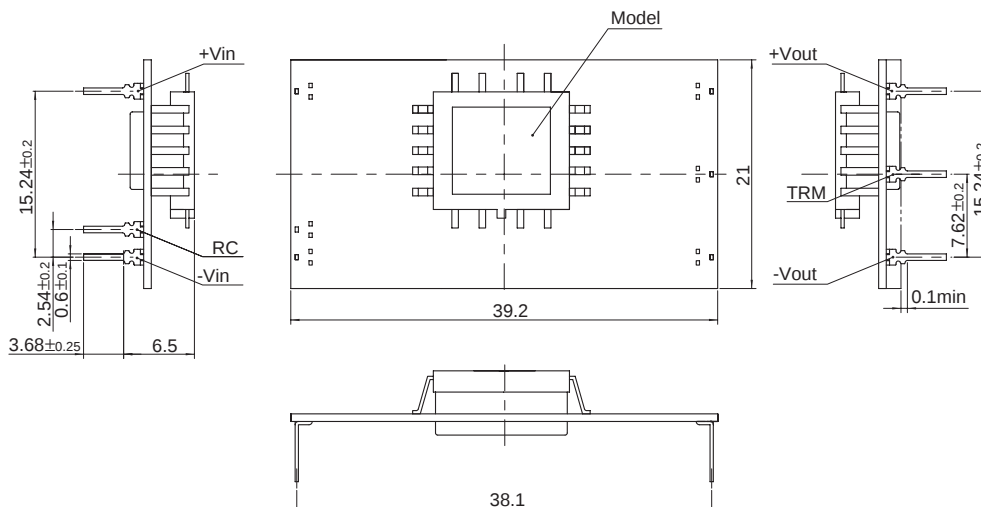
* Parallel operation with other model is not possible.

External view

1. SMD(type B)



2. DIP(type C)



- ※ Tolerance ± 0.5
- ※ Dimensions in mm
- ※ Pin terminal thickness : 0.3 ± 0.1
- ※ Pin terminal material : Copper alloy
- ※ Plating treatment of terminal : Lead free plating
- ※ Mass 6g less