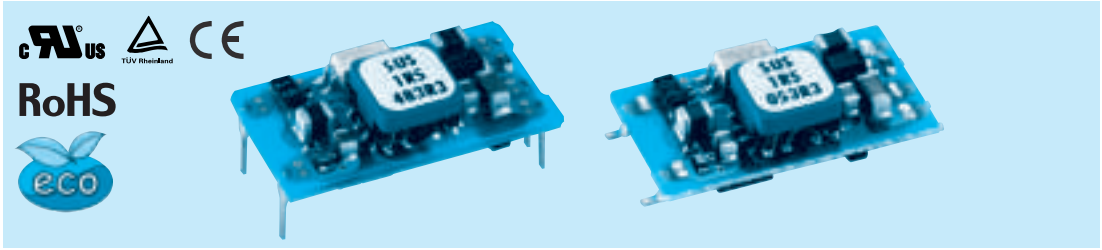
COSEL DC-DC Converters PCB Mount type

SUS1R5

Ordering information

SU	S	1R5	12	05	B	P
①	②	③	④	⑤	⑥	⑦



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

MODEL		SUS1R5053R3	SUS1R50505	SUS1R50512	SUS1R50515	SUS1R5123R3	SUS1R51205	SUS1R51212	SUS1R51215
MAX OUTPUT WATTAGE[W]		1.32	1.5	1.56	1.5	1.32	1.5	1.56	1.5
DC OUTPUT	VOLTAGE[V] *1	3.3	5	12	15	3.3	5	12	15
	CURRENT[A]	0.4	0.3	0.13	0.1	0.4	0.3	0.13	0.1

SPECIFICATIONS

	MODEL		SUS1R5053R3	SUS1R50505	SUS1R50512	SUS1R50515	SUS1R5123R3	SUS1R51205	SUS1R51212	SUS1R51215
INPUT	VOLTAGE[V]		DC4.5 - 9				DC9 - 18			
	CURRENT[A]	*2	0.377typ	0.405typ	0.422typ	0.405typ	0.153typ	0.164typ	0.171typ	0.164typ
	EFFICIENCY[%]	*2	70typ	74typ	74typ	74typ	72typ	76typ	76typ	76typ
OUTPUT	VOLTAGE[V]		3.3	5	12	15	3.3	5	12	15
	CURRENT[A]		0.4	0.3	0.13	0.1	0.4	0.3	0.13	0.1
	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℃ *3	80max	80max	120max	120max	80max	80max	120max	120max
		-40 to -20℃ *3	120max	120max	150max	150max	120max	120max	150max	150max
	RIPPLE NOISE[mVp-p]	-20 to +55℃ *3	120max	120max	150max	150max	120max	120max	150max	150max
		-40 to -20℃ *3	200max	200max	200max	200max	200max	200max	200max	200max
	TEMPERATURE REGULATION[mV]	-20 to +55℃	50max	50max	150max	180max	50max	50max	150max	180max
		-40 to +55℃	80max	80max	240max	290max	80max	80max	240max	290max
	DRIFT[mV]	*4	20max	20max	48max	60max	20max	20max	48max	60max
	START-UP TIME[ms]		20max (Minimum input, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE		Fixed (TRM pin open) ±5% adjustable by external VR							
	OUTPUT 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
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically							

MODEL		SUS1R5243R3	SUS1R52405	SUS1R52412	SUS1R52415	SUS1R5483R3	SUS1R54805	SUS1R54812	SUS1R54815
MAX OUTPUT WATTAGE[W]		1.32	1.5	1.56	1.5	1.32	1.5	1.56	1.5
DC OUTPUT	VOLTAGE[V] *1	3.3	5	12	15	3.3	5	12	15
	CURRENT[A]	0.4	0.3	0.13	0.1	0.4	0.3	0.13	0.1

SU·SUC/SUT

SPECIFICATIONS

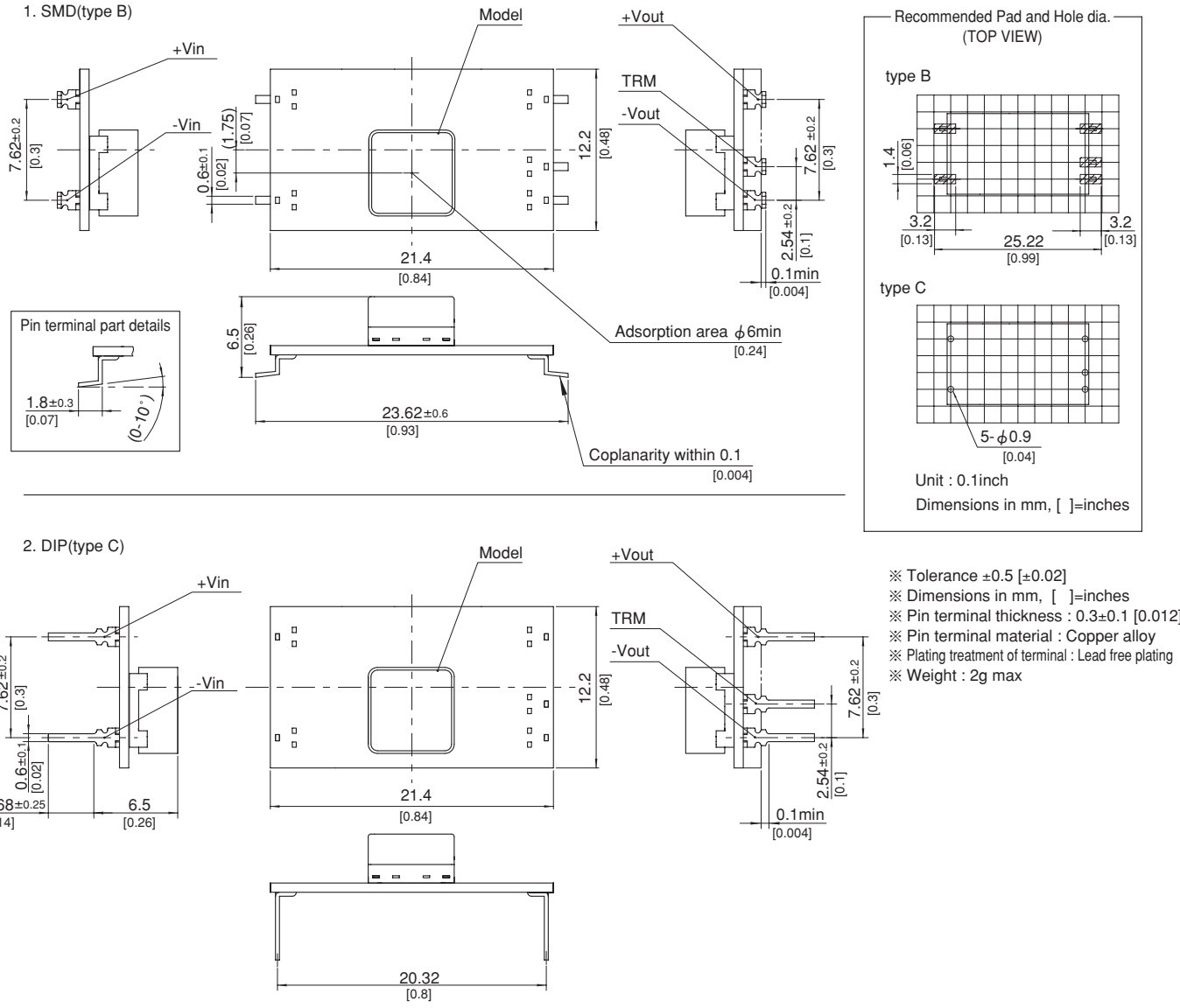
	MODEL		SUS1R5243R3	SUS1R52405	SUS1R52412	SUS1R52415	SUS1R5483R3	SUS1R54805	SUS1R54812	SUS1R54815
INPUT	VOLTAGE[V]		DC18 - 36				DC36 - 76			
	CURRENT[A]	*2	0.076typ	0.082typ	0.084typ	0.081typ	0.038typ	0.041typ	0.042typ	0.041typ
	EFFICIENCY[%]	*2	72typ	76typ	77typ	77typ	72typ	76typ	77typ	77typ
OUTPUT	VOLTAGE[V]		3.3	5	12	15	3.3	5	12	15
	CURRENT[A]		0.4	0.3	0.13	0.1	0.4	0.3	0.13	0.1
	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℃ *3	80max	80max	120max	120max	80max	80max	120max	120max
		-40 to -20℃ *3	120max	120max	150max	150max	120max	120max	150max	150max
	RIPPLE NOISE[mVp-p]	-20 to +55℃ *3	120max	120max	150max	150max	120max	120max	150max	150max
		-40 to -20℃ *3	200max	200max	200max	200max	200max	200max	200max	200max
	TEMPERATURE REGULATION[mV]	-20 to +55℃	50max	50max	150max	180max	50max	50max	150max	180max
		-40 to +55℃	80max	80max	240max	290max	80max	80max	240max	290max
	DRIFT[mV]	*4	20max	20max	48max	60max	20max	20max	48max	60max
	START-UP TIME[ms]		20max (Minimum input, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE		Fixed (TRM pin open) ±5% adjustable by external VR							
	OUTPUT 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
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically							

GENERAL SPECIFICATIONS

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 [0.84×0.26×0.48 inches] (W×H×D) / 2g max
	COOLING METHOD	Convection/Forced air

*1 SUW1R5xx12/SUW1R5xx15 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℃.
* Parallel operation with other model is not possible.

External view



※ Tolerance ±0.5 [±0.02]
※ Dimensions in mm, [ ]=inches
※ Pin terminal thickness : 0.3±0.1 [0.012]
※ Pin terminal material : Copper alloy
※ Plating treatment of terminal : Lead free plating
※ Weight : 2g max

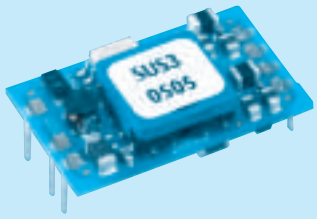
SU-SUC/SUT

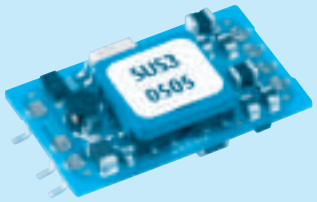
COSEL DC-DC Converters PCB Mount type

SUS3

Ordering information

SU S 3 12 05 B P -□
① ② ③ ④ ⑤ ⑥ ⑦ ⑧





①Series name
②Single output
③Output wattage
④Input voltage
⑤Output voltage
⑥Mounting type
B : SMD
C : DIP
⑦Packing form
Blank:Plastic cover
P : Tray (SMD type)
⑧Optional
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	15
	CURRENT[A]	0.6	0.6	0.25	0.2	0.6	0.6	0.25	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℃ ∗3	80max	80max	120max	120max	80max	80max	120max	120max
		-40 to -20℃ ∗3	120max	120max	150max	150max	120max	120max	150max	150max
	RIPPLE NOISE[mVp-p]	-20 to +55℃ ∗3	120max	120max	150max	150max	120max	120max	150max	150max
		-40 to -20℃ ∗3	200max	200max	200max	200max	200max	200max	200max	200max
	TEMPERATURE REGULATION[mV]	-20 to +55℃	50max	50max	150max	180max	50max	50max	150max	180max
		-40 to +55℃	80max	80max	240max	290max	80max	80max	240max	290max
	DRIFT[mV]	∗4	20max	20max	48max	60max	20max	20max	48max	60max
	START-UP TIME[ms]		20max (Minimum input, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE		Fixed (TRM pin open) ±5% adjustable by external VR							
	OUTPUT 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
PROTECTION CIRCUIT AND OTHERS	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	15
	CURRENT[A]	0.6	0.6	0.25	0.2	0.6	0.6	0.25	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℃ ∗3	80max	80max	120max	120max	80max	80max	120max	120max
		-40 to -20℃ ∗3	120max	120max	150max	150max	120max	120max	150max	150max
	RIPPLE NOISE[mVp-p]	-20 to +55℃ ∗3	120max	120max	150max	150max	120max	120max	150max	150max
		-40 to -20℃ ∗3	200max	200max	200max	200max	200max	200max	200max	200max
	TEMPERATURE REGULATION[mV]	-20 to +55℃	50max	50max	150max	180max	50max	50max	150max	180max
		-40 to +55℃	80max	80max	240max	290max	80max	80max	240max	290max
	DRIFT[mV]	∗4	20max	20max	48max	60max	20max	20max	48max	60max
	START-UP TIME[ms]		20max (Minimum input, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE		Fixed (TRM pin open) ±5% adjustable by external VR							
	OUTPUT 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
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically							
	REMOTE ON/OFF		Provided (Negative logic L : ON, H : OFF)							

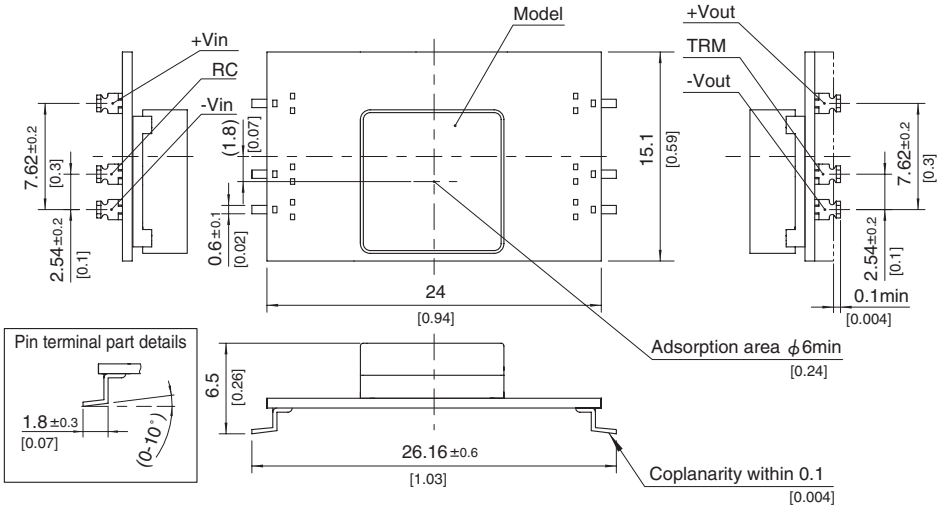
GENERAL SPECIFICATIONS

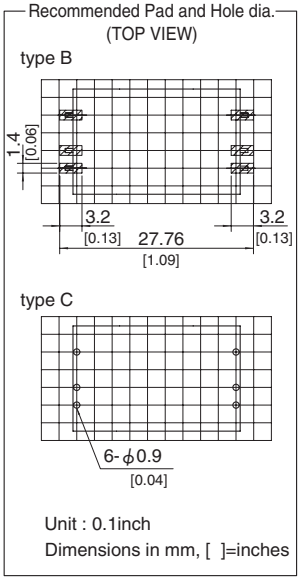
ISOLATION	**INPUT-OUTPUT**	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)
ENVIRONMENT	**OPERATING TEMP.,HUMID.AND ALTITUDE**	-40 to +85℃, 20 - 95%RH (Non condensing) (Required Derating), 3,000m (10,000feet) max
	STORAGE TEMP.,HUMID.AND ALTITUDE	-40 to +100℃, 20 - 95%RH (Non condensing), 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**	24×6.5×15.1mm [0.94×0.26×0.59 inches] (W×H×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℃.
* Parallel operation with other model is not possible.

External view

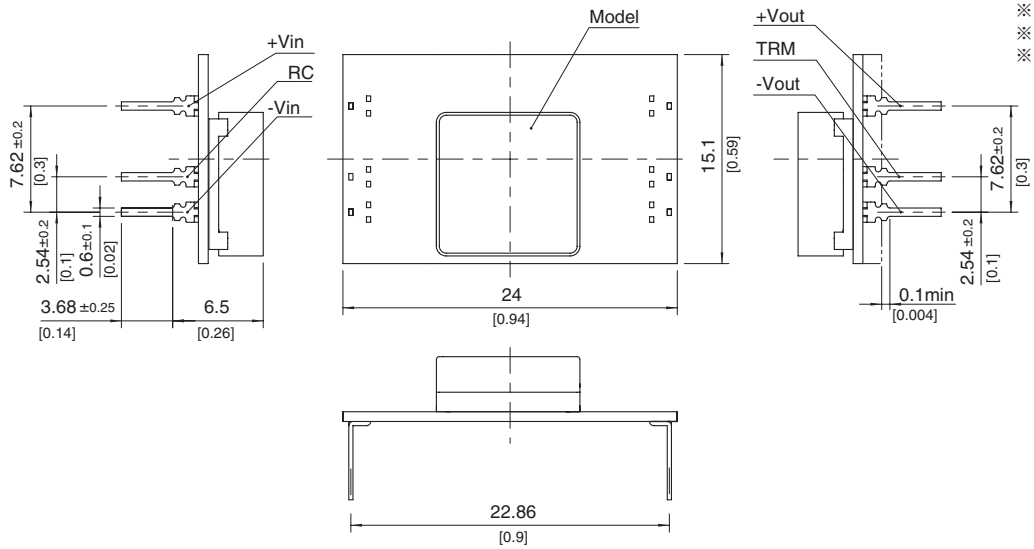
1.SMD(type B)





※ Tolerance ±0.5 [±0.02]
※ Dimensions in mm, [ ]=inches
※ Pin terminal thickness : 0.3±0.1 [0.012]
※ Pin terminal material : Copper alloy
※ Plating treatment of terminal : Lead free plating
※ Weight : 3g max

2.DIP(type C)



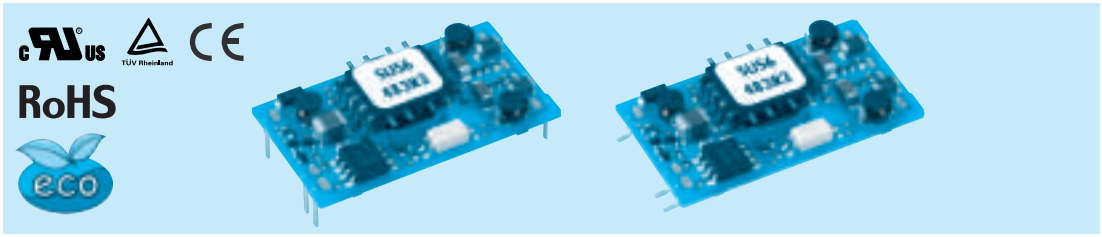
COSEL DC-DC Converters PCB Mount type

SUS6

Ordering information

SU S 6 12 05 B P -□

① ② ③ ④ ⑤ ⑥ ⑦ ⑧



①Series name
②Single output
③Output wattage
④Input voltage
⑤Output voltage
⑥Mounting type
B : SMD
C : DIP
⑦Packing form
Blank: Plastic cover
P : Tray (SMD type)
⑧Optional
G : Capacitor between Input and Output is removed.

MODEL		SUS6053R3	SUS60505	SUS60512	SUS60515	SUS6123R3	SUS61205	SUS61212	SUS61215
MAX OUTPUT WATTAGE[W]		3.96	5	6	6	4.46	6	6	6
DC OUTPUT	VOLTAGE[V] *1	3.3	5	12	15	3.3	5	12	15
	CURRENT[A]	1.2	1	0.5	0.4	1.35	1.2	0.5	0.4

SPECIFICATIONS

	MODEL		SUS6053R3	SUS60505	SUS60512	SUS60515	SUS6123R3	SUS61205	SUS61212	SUS61215
INPUT	VOLTAGE[V]		DC4.5 - 9				DC9 - 18			
	CURRENT[A]	*2	1.100typ	1.316typ	1.500typ	1.500typ	0.502typ	0.617typ	0.588typ	0.588typ
	EFFICIENCY[%]	*2	72typ	76typ	80typ	80typ	74typ	81typ	85typ	85typ
OUTPUT	VOLTAGE[V]		3.3	5	12	15	3.3	5	12	15
	CURRENT[A]		1.2	1	0.5	0.4	1.35	1.2	0.5	0.4
	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℃ *3	80max	80max	120max	120max	80max	80max	120max	120max
		-40 to -20℃ *3	120max	120max	150max	150max	120max	120max	150max	150max
	RIPPLE NOISE[mVp-p]	-20 to +55℃ *3	120max	120max	150max	150max	120max	120max	150max	150max
		-40 to -20℃ *3	200max	200max	200max	200max	200max	200max	200max	200max
	TEMPERATURE REGULATION[mV]	-20 to +55℃	50max	50max	150max	180max	50max	50max	150max	180max
		-40 to +55℃	80max	80max	240max	290max	80max	80max	240max	290max
	DRIFT[mV]	*4	20max	20max	48max	60max	20max	20max	48max	60max
	START-UP TIME[ms]		20max (Minimum input, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE		Fixed (TRM pin open) ±5% adjustable by external VR							
	OUTPUT 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
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically							
	REMOTE ON/OFF		Provided (Negative logic L : ON, H : OFF)							

MODEL		SUS6243R3	SUS62405	SUS62412	SUS62415	SUS6483R3	SUS64805	SUS64812	SUS64815
MAX OUTPUT WATTAGE[W]		4.46	6	6	6	4.46	6	6	6
DC OUTPUT	VOLTAGE[V] *1	3.3	5	12	15	3.3	5	12	15
	CURRENT[A]	1.35	1.2	0.5	0.4	1.35	1.2	0.5	0.4

SPECIFICATIONS

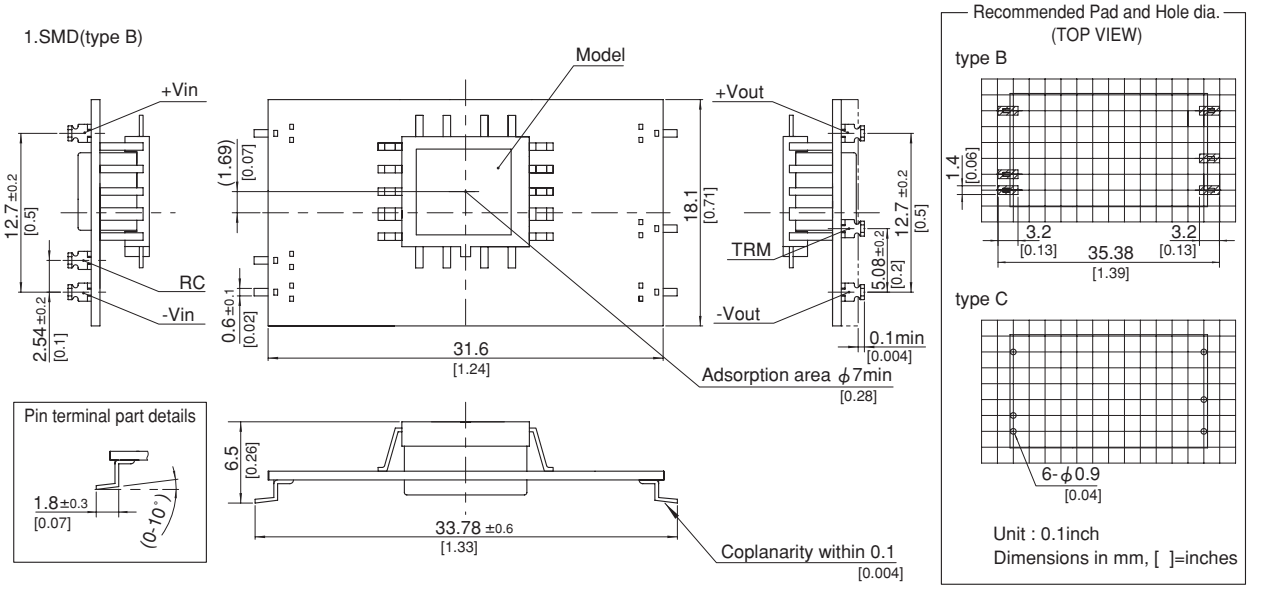
	MODEL		SUS6243R3	SUS62405	SUS62412	SUS62415	SUS6483R3	SUS64805	SUS64812	SUS64815
INPUT	VOLTAGE[V]		DC18 - 36				DC36 - 76			
	CURRENT[A]	*2	0.248typ	0.309typ	0.291typ	0.291typ	0.121typ	0.154typ	0.145typ	0.145typ
	EFFICIENCY[%]	*2	75typ	81typ	86typ	86typ	77typ	81typ	86typ	86typ
OUTPUT	VOLTAGE[V]		3.3	5	12	15	3.3	5	12	15
	CURRENT[A]		1.35	1.2	0.5	0.4	1.35	1.2	0.5	0.4
	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℃ *3	80max	80max	120max	120max	80max	80max	120max	120max
		-40 to -20℃ *3	120max	120max	150max	150max	120max	120max	150max	150max
	RIPPLE NOISE[mVp-p]	-20 to +55℃ *3	120max	120max	150max	150max	120max	120max	150max	150max
		-40 to -20℃ *3	200max	200max	200max	200max	200max	200max	200max	200max
	TEMPERATURE REGULATION[mV]	-20 to +55℃	50max	50max	150max	180max	50max	50max	150max	180max
		-40 to +55℃	80max	80max	240max	290max	80max	80max	240max	290max
	DRIFT[mV]	*4	20max	20max	48max	60max	20max	20max	48max	60max
	START-UP TIME[ms]		20max (Minimum input, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE		Fixed (TRM pin open) ±5% adjustable by external VR							
	OUTPUT 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
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically							
	REMOTE ON/OFF		Provided (Negative logic L : ON, H : OFF)							

GENERAL SPECIFICATIONS

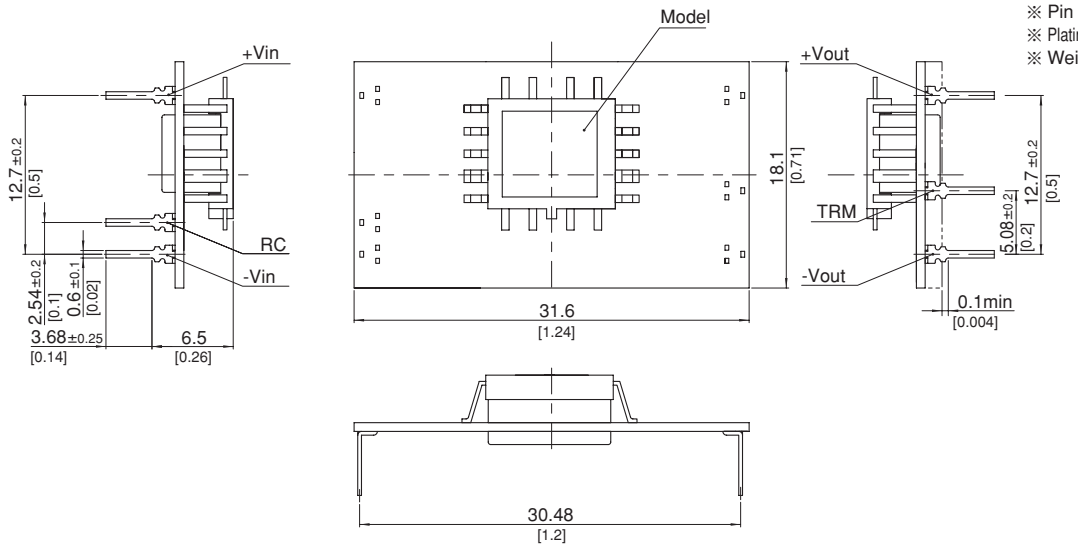
ISOLATION	**INPUT-OUTPUT**	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)
ENVIRONMENT	**OPERATING TEMP.,HUMID.AND ALTITUDE**	-40 to +85℃, 20 - 95%RH (Non condensing) (Required Derating), 3,000m (10,000feet) max
	STORAGE TEMP.,HUMID.AND ALTITUDE	-40 to +100℃, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max
	VIBRATION	10 - 55Hz, 98.0m/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**	31.6×6.5×18.1mm [1.24×0.26×0.71 inches] (W×H×D) / 4g max
	COOLING METHOD	Convection/Forced air

*1 SUW6xx12/SUW6xx15 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℃.
* Parallel operation with other model is not possible.

External view



※ Tolerance ±0.5 [±0.02]
※ Dimensions in mm, [ ]=inches
※ Pin terminal thickness : 0.3±0.1 [0.012]
※ Pin terminal material : Copper alloy
※ Plating treatment of terminal : Lead free plating
※ Weight : 4g max

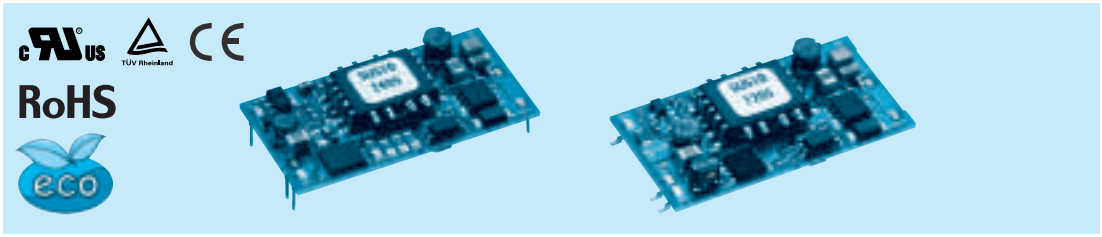


COSEL DC-DC Converters PCB Mount type

SUS10

Ordering information

SU	S	10	12	05	B	P	-□
①	②	③	④	⑤	⑥	⑦	⑧



①Series name
②Single output
③Output wattage
④Input voltage
⑤Output voltage
⑥Mounting type
B : SMD
C : DIP
⑦Packing form
Blank:Plastic cover
P : Tray (SMD type)
⑧Optional
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	15
	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℃ *3	80max	80max	120max	120max	80max	80max	120max	120max
		-40 to -20℃ *3	120max	120max	150max	150max	120max	120max	150max	150max
	RIPPLE NOISE[mVp-p]	-20 to +55℃ *3	120max	120max	150max	150max	120max	120max	150max	150max
		-40 to -20℃ *3	200max	200max	200max	200max	200max	200max	200max	200max
	TEMPERATURE REGULATION[mV]	-20 to +55℃	50max	50max	150max	180max	50max	50max	150max	180max
		-40 to +55℃	80max	80max	240max	290max	80max	80max	240max	290max
	DRIFT[mV]	*4	20max	20max	48max	60max	20max	20max	48max	60max
	START-UP TIME[ms]		20max (Minimum input, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE		Fixed (TRM pin open) ±5% adjustable by external VR							
	OUTPUT 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
PROTECTION CIRCUIT AND OTHERS	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	15
	CURRENT[A]	2.6	2	1	0.8	2.6	2	1	0.8

SU-SUC/SUT

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℃ *3	80max	80max	120max	120max	80max	80max	120max	120max
		-40 to -20℃ *3	120max	120max	150max	150max	120max	120max	150max	150max
	RIPPLE NOISE[mVp-p]	-20 to +55℃ *3	120max	120max	150max	150max	120max	120max	150max	150max
		-40 to -20℃ *3	200max	200max	200max	200max	200max	200max	200max	200max
	TEMPERATURE REGULATION[mV]	-20 to +55℃	50max	50max	150max	180max	50max	50max	150max	180max
		-40 to +55℃	80max	80max	240max	290max	80max	80max	240max	290max
	DRIFT[mV]	*4	20max	20max	48max	60max	20max	20max	48max	60max
	START-UP TIME[ms]		20max (Minimum input, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE		Fixed (TRM pin open) ±5% adjustable by external VR							
	OUTPUT 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
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically							
	REMOTE ON/OFF		Provided (Negative logic L : ON, H : OFF)							

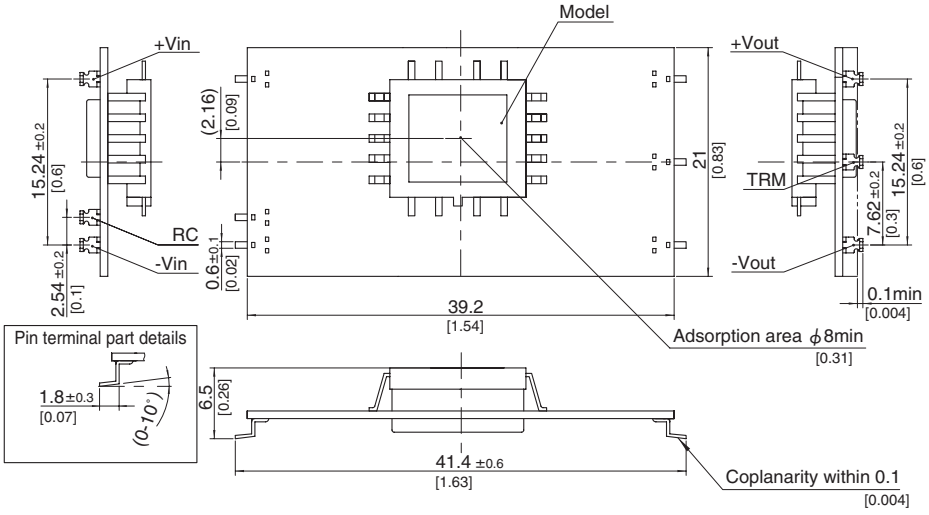
GENERAL SPECIFICATIONS

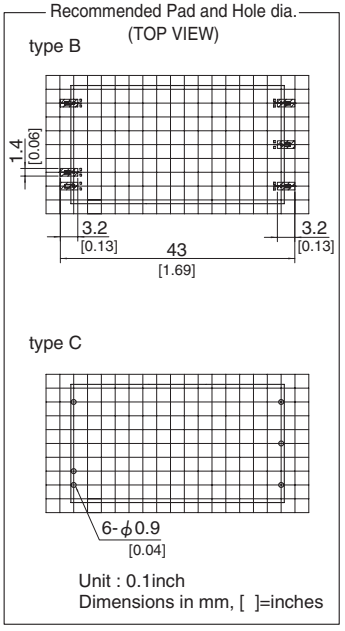
ISOLATION	INPUT-OUTPUT	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE	-40 to +85℃, 20 - 95%RH (Non condensing) (Required Derating), 3,000m (10,000feet) max
	STORAGE TEMP.,HUMID.AND ALTITUDE	-40 to +100℃, 20 - 95%RH (Non condensing), 9,000m (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	39.2×6.5×21.0mm [1.54×0.26×0.83 inches] (W×H×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 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.

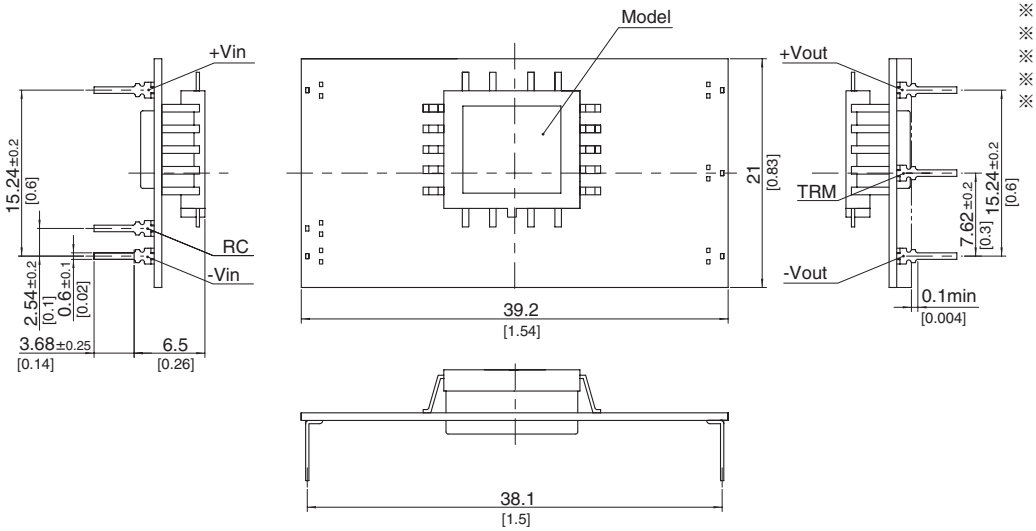
External view

1.SMD(type B)





2.DIP(type C)



※ Tolerance ±0.5 [±0.02]
※ Dimensions in mm, [ ]=inches
※ Pin terminal thickness : 0.3±0.1 [0.012]
※ Pin terminal material : Copper alloy
※ Plating treatment of terminal : Lead free plating
※ Weight : 6g max

SU·SUC/SUT

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Cosel:

SUS62415BP-G SUS61212BP-G SUS104805BP SUS100505B SUS32412B SUS101215BP SUS1R51205B SUS1R52415C SUS62415B SUS6483R3C SUS60505B SUS30505C SUS1R50505C SUS102415BP-G SUS10053R3B SUS10483R3C SUS32415C SUS1R54815B SUS32405BP-G SUS102405C-G SUS31205C SUS3053R3C SUS104812BP SUS1R5123R3BP SUS1R5243R3C SUS6053R3B SUS62405C-G SUS34805C SUS30505B SUS100505C-G SUS10243R3B SUS61205C SUS61205B SUS30512BP SUS62412BP SUS34812C SUS61215BP SUS1R50512C SUS104815BP SUS31212BP SUS102412BP SUS64812BP SUS102412C-G SUS60515C SUS60505C-G SUS30505BP-G SUS32405BP SUS6243R3B SUS101205B SUS3123R3C SUS1R51215B SUS1R50515C SUS34805BP SUS3483R3C SUS61212BP SUS32412BP-G SUS6243R3BP-G SUS1R52412BP SUS10483R3BP SUS3243R3B SUS62405C SUS64815BP SUS6123R3BP SUS1R54805C SUS102405C SUS3053R3BP SUS10053R3C SUS31215B SUS100515C SUS3243R3C SUS1R52405B SUS1R54815C SUS6483R3BP SUS6053R3C SUS32405C-G SUS62415C-G SUS64812B SUS31205BP SUS10123R3B SUS62415BP SUS1R5053R3C SUS1R5243R3BP SUS10483R3B SUS104812B SUS1R50512BP SUS60512BP SUS64815B SUS64805B SUS1R51205C SUS61205BP-G SUS101205C SUS30515B SUS62412B-G SUS6123R3B SUS1R52412B SUS10243R3C-G SUS102415B-G SUS31215BP SUS31205B SUS104805C

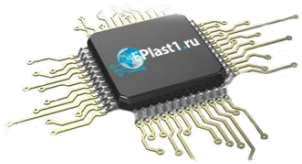
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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Факс: 8 (812) 320-02-42
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