



Low profile Compact DC-DC converter



MUS1R5



MUS3



MUS6



MUS10



MUS15



MUW1R5



MUW3



MUW6



MUW10



MUS30

1.5/3/6/10/15/30W

NEW

MU

series

The next generation
to the very successful
SU series.

MU series

Low Profile•Compact DC-DC Converter

Low profile design and Small footprint makes the MU series ideal for small space applications.



1.5W to 30W
Total 112 models. Enriched Line-up

Same Line-up as existing SU/SUC series models.
A range of models designed for versatility and performance.



MU1R5



MU3



MU6



MU10

Power 1.5W, 3W, 6W, 10W

Input 5, 12, 24, 48VDC

Output 3.3, 5, 12, 15VDC
±12V (+24V)
±15V (+30V)



MU15



MU30

Power 15W, 30W

Input 24, 48VDC

Output 3.3, 5, 12, 15VDC

Compact Size (Footprint)

Suitable for reducing application footprint

Compact size saves P.S. space smaller than the existing series (SU/SUC series). (Photo: Original Scale)

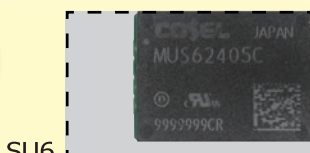
High Density on
application
footprint is available

Same
Size



SU1R5

33%
Reduced



SU6

Output Power
2.5
Times
bigger^{※1}



SU6

28%
Reduced



SU3

53%
Reduced



SU10

Output Power
3
Times
bigger^{※2}



SU10

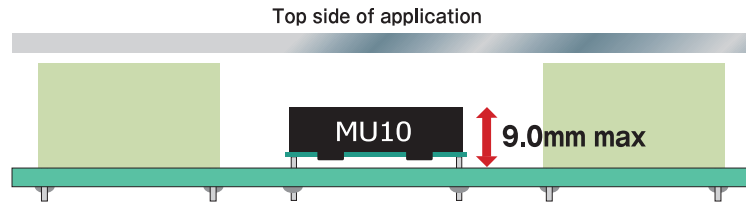
※1 Comparison to the existing SU6 series.
※2 Comparison to the existing SU10 series

Compact Size (Height)

Suitable to install in narrow application space

The height of its MU series is max. 9.0mm.
The low profile is available with high power density in narrow application space.

※MU30: 9.7mm max.

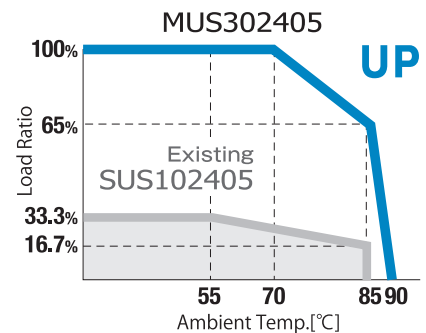
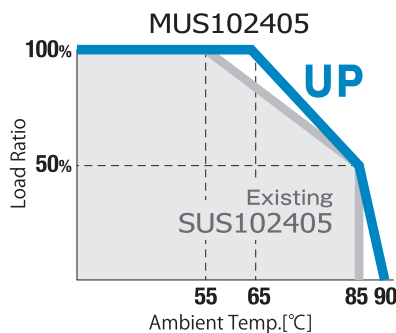
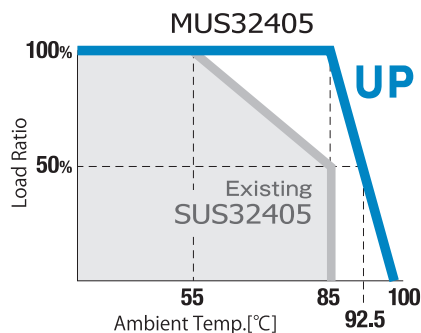
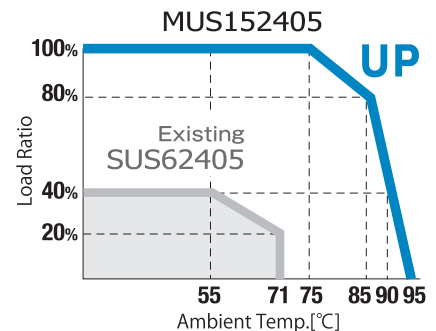
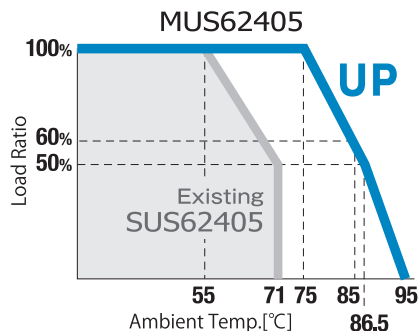
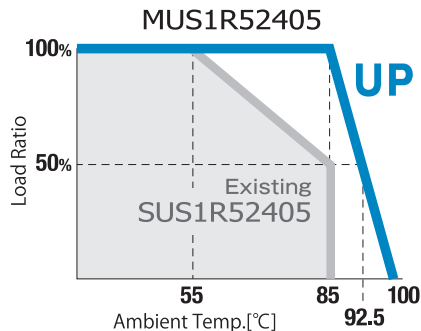


Operating Ambient Temperature

Operation is available at higher ambient temperature

At higher ambient temp. with full power operation is available than the existing series (SU/SUC series).

High efficiency reduces heat generation in applications.

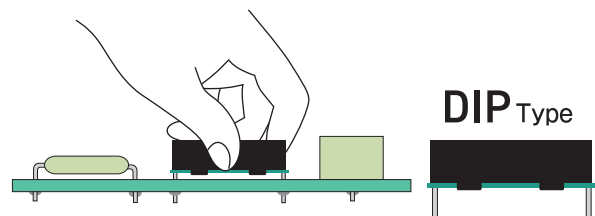
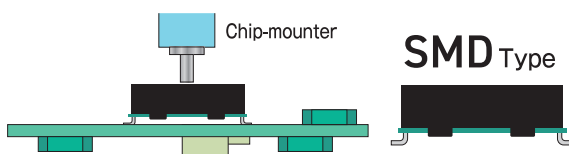


SMD/DIP Type

2 form factors, Surface mount or Through hole available.

SMD Type available on a tray for pick and place installation.

Tray package reduces application production arrangement.



- Tightly Packed Installation...Compact System Available
- Mounting Automatically...Reduces application assembly cost

- DIP type is available for flow-type soldering.

MU series



Model	Output Wattage	Input Voltage				Output Voltage / Output Current						Case Size (W x H x D) mm [Inches]
						3.3V	5V	12V	15V	±12V (24V)	±15V (30V)	
MUS1R5 MUW1R5	1.5W	5VDC (4.5 to 9VDC)	12VDC (9 to 18VDC)	24VDC (18 to 36VDC)	48VDC (36 to 76VDC)	0.4A	0.3A	0.13A	0.1A	0.065A	0.05A	21.4 x 8.5 x 13.4 [0.84 x 0.33 x 0.53]
MUS3 MUW3	3W					0.6A	0.6A	0.25A	0.2A	0.13A	0.1A	21.4 x 8.5 x 13.4 [0.84 x 0.33 x 0.53]
MUS6 MUW6	6W					1.35A	1.2A	0.5A	0.4A	0.25A	0.2A	24.0 x 8.5 x 17.3 [0.94 x 0.33 x 0.68]
MUS10 MUW10	10W					2.6A	2A	0.9A	0.7A	0.45A	0.35A	24.0 x 8.5 x 17.3 [0.94 x 0.33 x 0.68]
MUS15	15W	—	—			4.5A	3A	1.25A	1A	—	—	32.6 x 8.5 x 19.1 [1.28 x 0.33 x 0.75]
MUS30	30W	—	—			9A	6A	2.5A	2A	—	—	40.2 x 9.2 x 22.0 [1.58 x 0.36 x 0.87]

Low Profile Compact DC-DC Converter MUseries

Feature

- ▶ SMD / DIP Types available
- ▶ Thin type·Light weight·Space Saving
- ▶ Isolation (Input - Output) 500VAC·1 min. (MU1R5, 3, 6, 10)
500VAC·1 min. (MU15, 30)
500VAC·1 min., 1000VDC·1min. (MU15, 30)
- ▶ Operating Ambient Temperature -40 to 100°C (MU1R5, 3)
-40 to 95°C (MU6, 15)
-40 to 90°C (MU10, 30)
- ▶ Over Current Protection (Auto-recovery)
- ▶ Over Voltage Protection (MU15, 30)
- ▶ Remote-control (MU3, 6, 10, 15, 30)
RC Voltage 0 to 0.3V or Open-mode: DC Output ON
RC Voltage 2 to 9V: DC Output OFF
- ▶ External Output Voltage adjustable: +10% to -5%
- ▶ Fixed Oscillatory Frequency

Safety Standards

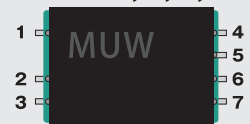
- ▶ UL62368-1
- ▶ C-UL (CAN/CSA-22.2 No.62368-1)
- ▶ EN62368-1

MUS1R5, 3, 6, 10



TOP VIEW

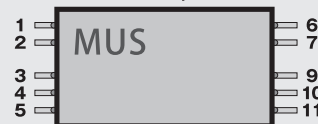
MUW1R5, 3, 6, 10



TOP VIEW

Pin	MUS1R5, 3, 6, 10	MUW1R5, 3, 6, 10
1	+Vin	
2	RC (Excl. 1.5W)	
3	-Vin	
4	+Vout	
5	—	COM
6	TRM	
7	-Vout	

MUS15, 30



TOP VIEW

Pin	MUS15, 30
1, 2	+Vin
3	RC
4, 5	-Vin
6, 7	+Vout
9	TRM
10, 11	-Vout

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