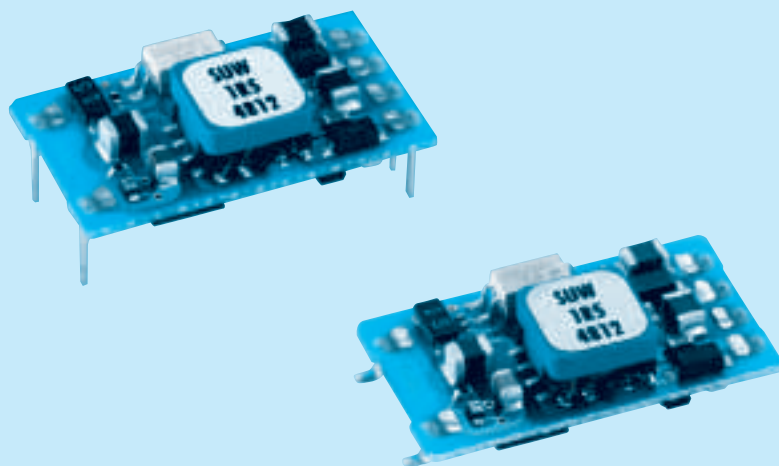




RoHS



- ① Series name  
 ② Dual output  
 ③ Output wattage  
 ④ Input voltage  
 ⑤ Output voltage  
 ⑥ Mounting type  
   B : SMD  
   C : DIP  
 ⑦ Packing form  
   Blank: Plastic cover  
   P : Tray (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] | ±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°C *3                                                                              | 120max        | 120max        | 120max        | 120max        | 120max        | 120max        | 120max        |
|                                     |                                      | -40 to -20°C *3                                                                              | 150max        | 150max        | 150max        | 150max        | 150max        | 150max        | 150max        |
|                                     | RIPPLE NOISE[mVp-p]                  | -20 to +55°C *3                                                                              | 150max        | 150max        | 150max        | 150max        | 150max        | 150max        | 150max        |
|                                     |                                      | -40 to -20°C *3                                                                              | 200max        | 200max        | 200max        | 200max        | 200max        | 200max        | 200max        |
|                                     | TEMPERATURE REGULATION[mV]           | -20 to +55°C                                                                                 | 150max        | 180max        | 150max        | 180max        | 150max        | 180max        | 180max        |
|                                     |                                      | -40 to +55°C                                                                                 | 240max        | 290max        | 240max        | 290max        | 240max        | 290max        | 290max        |
|                                     | DRIFT[mV] *4                         | 50max                                                                                        | 60max         | 50max         | 60max         | 50max         | 60max         | 50max         | 60max         |
| PROTECTION<br>CIRCUIT AND<br>OTHERS | 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] (±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 |
|                                     | OVERCURRENT PROTECTION               | Works over 105% of rating and recovers automatically                                         |               |               |               |               |               |               |               |
| ISOLATION                           | INPUT-OUTPUT                         | AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)                             |               |               |               |               |               |               |               |
| ENVIRONMENT                         | OPERATING TEMP., HUMID. AND ALTITUDE | -40 to +85°C, 20 - 95%RH (Non condensing) (Required Derating), 3,000m (10,000feet) max       |               |               |               |               |               |               |               |
|                                     | STORAGE TEMP., HUMID. AND ALTITUDE   | -40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max                          |               |               |               |               |               |               |               |
|                                     | VIBRATION                            | 10 - 55Hz, 98.0m/s <sup>2</sup> (10G), 3minutes period, 60minutes each along X, Y and Z axis |               |               |               |               |               |               |               |
|                                     | IMPACT                               | 490.3m/s <sup>2</sup> (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 Output pins can be connected in series to make a 24V/30V output.

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

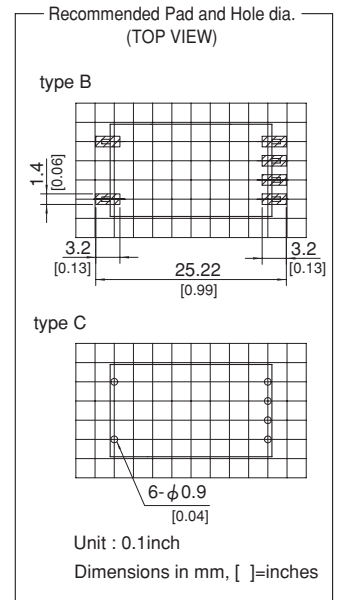
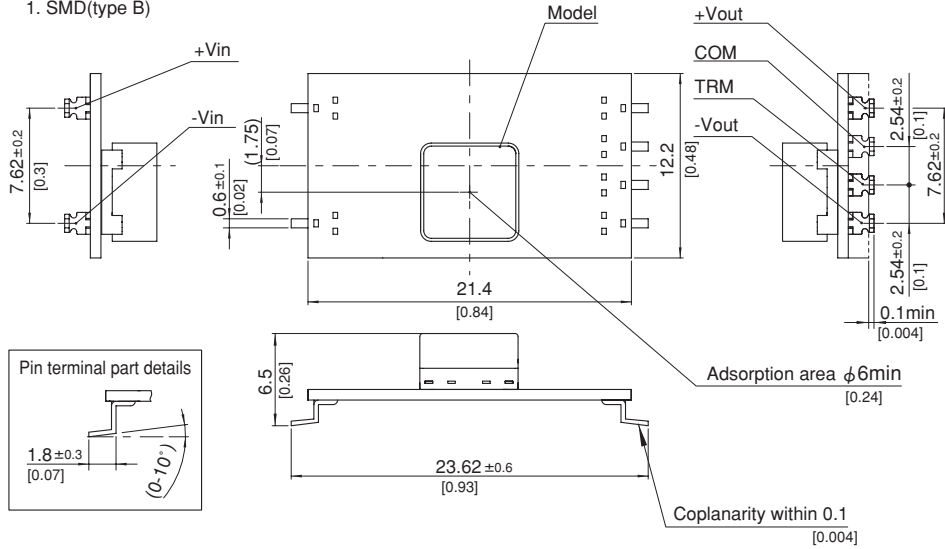
\*3 Ripple and Ripple Noise is measured by using measuring board with capacitor with in 25mm from output pin terminals.

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

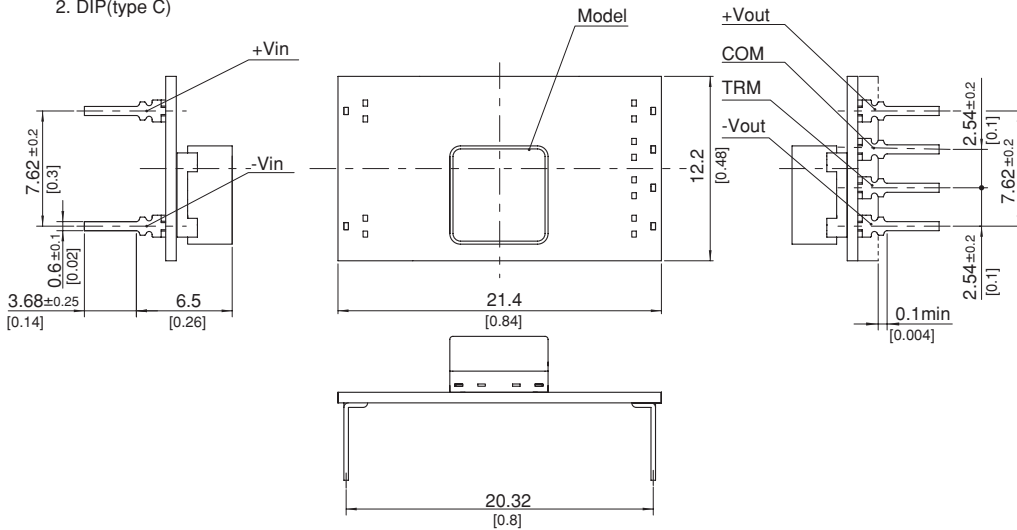
\* Parallel operation with other model is not possible.

External view

1. SMD(type B)



2. DIP(type C)



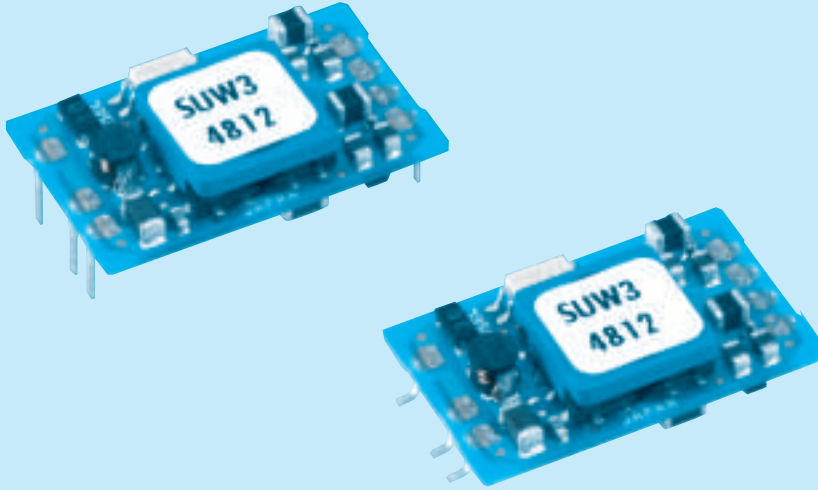
- ※ Tolerance ±0.5 [±0.02]
- ※ Dimensions in mm, [ ]=inches
- ※ Pin terminal thickness : 0.3±0.1 [0.012]
- ※ Pin terminal material : Copper alloy
- ※ Plating treatment of terminal : Lead free plating
- ※ Weight : 2g max

SU W 3 12 12 B P - □

① ② ③ ④ ⑤ ⑥ ⑦ ⑧



RoHS



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

| MODEL                 |               | SUW30512   | SUW30515   | SUW31212   | SUW31215   | SUW32412   | SUW32415   | SUW34812   | SUW34815   |
|-----------------------|---------------|------------|------------|------------|------------|------------|------------|------------|------------|
| MAX OUTPUT WATTAGE[W] |               | 3.12       | 3          | 3.12       | 3          | 3.12       | 3          | 3.12       | 3          |
| 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]    | 0.13       | 0.1        | 0.13       | 0.1        | 0.13       | 0.1        | 0.13       | 0.1        |

## SPECIFICATIONS

|                               | MODEL                                | SUW30512                                                                                     | SUW30515      | SUW31212      | SUW31215      | SUW32412      | SUW32415      | SUW34812      | SUW34815      |
|-------------------------------|--------------------------------------|----------------------------------------------------------------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| INPUT                         | VOLTAGE[V]                           | DC4.5 - 9                                                                                    |               | DC9 - 18      |               | DC18 - 36     |               | DC36 - 76     |               |
|                               | CURRENT[A]                           | *2 0.822typ                                                                                  | 0.790typ      | 0.334typ      | 0.321typ      | 0.167typ      | 0.161typ      | 0.084typ      | 0.081typ      |
|                               | EFFICIENCY[%]                        | *2 76typ                                                                                     | 76typ         | 78typ         | 78typ         | 78typ         | 78typ         | 78typ         | 78typ         |
| OUTPUT                        | VOLTAGE[V]                           | ±12(+24)                                                                                     | ±15(+30)      | ±12(+24)      | ±15(+30)      | ±12(+24)      | ±15(+30)      | ±12(+24)      | ±15(+30)      |
|                               | CURRENT[A]                           | 0.13                                                                                         | 0.1           | 0.13          | 0.1           | 0.13          | 0.1           | 0.13          | 0.1           |
|                               | 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°C *3                                                                              | 120max        | 120max        | 120max        | 120max        | 120max        | 120max        | 120max        |
|                               |                                      | -40 to -20°C *3                                                                              | 150max        | 150max        | 150max        | 150max        | 150max        | 150max        | 150max        |
|                               | RIPPLE NOISE[mVp-p]                  | -20 to +55°C *3                                                                              | 150max        | 150max        | 150max        | 150max        | 150max        | 150max        | 150max        |
|                               |                                      | -40 to -20°C *3                                                                              | 200max        | 200max        | 200max        | 200max        | 200max        | 200max        | 200max        |
|                               | TEMPERATURE REGULATION[mV]           | -20 to +55°C                                                                                 | 150max        | 180max        | 150max        | 180max        | 150max        | 180max        | 180max        |
|                               |                                      | -40 to +55°C                                                                                 | 240max        | 290max        | 240max        | 290max        | 240max        | 290max        | 290max        |
| PROTECTION CIRCUIT AND OTHERS | DRIFT[mV]                            | *4 50max                                                                                     | 60max         | 50max         | 60max         | 50max         | 60max         | 50max         | 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] (±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 |
|                               | OVERCURRENT PROTECTION               | Works over 105% of rating and recovers automatically                                         |               |               |               |               |               |               |               |
| ISOLATION                     | REMOTE ON/OFF                        | Provided (Negative logic L : ON, H : OFF)                                                    |               |               |               |               |               |               |               |
|                               | INPUT-OUTPUT                         | AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)                             |               |               |               |               |               |               |               |
| ENVIRONMENT                   | OPERATING TEMP., HUMID. AND ALTITUDE | -40 to +85°C, 20 - 95%RH (Non condensing) (Required Derating), 3,000m (10,000feet) max       |               |               |               |               |               |               |               |
|                               | STORAGE TEMP., HUMID. AND ALTITUDE   | -40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max                          |               |               |               |               |               |               |               |
|                               | VIBRATION                            | 10 - 55Hz, 98.0m/s <sup>2</sup> (10G), 3minutes period, 60minutes each along X, Y and Z axis |               |               |               |               |               |               |               |
|                               | IMPACT                               | 490.3m/s <sup>2</sup> (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 Output pins can be connected in series to make a 24V/30V output.

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

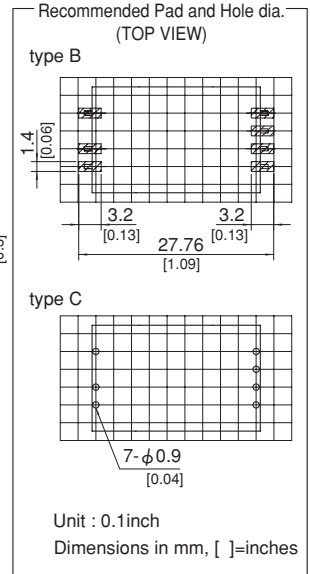
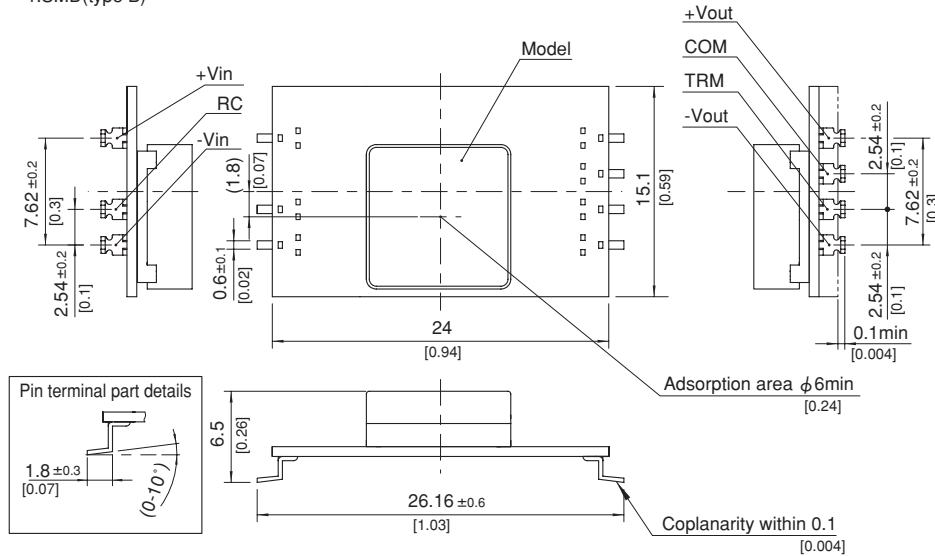
\*3 Ripple and Ripple Noise is measured by using measuring board with capacitor with in 25mm from output pin terminals.

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

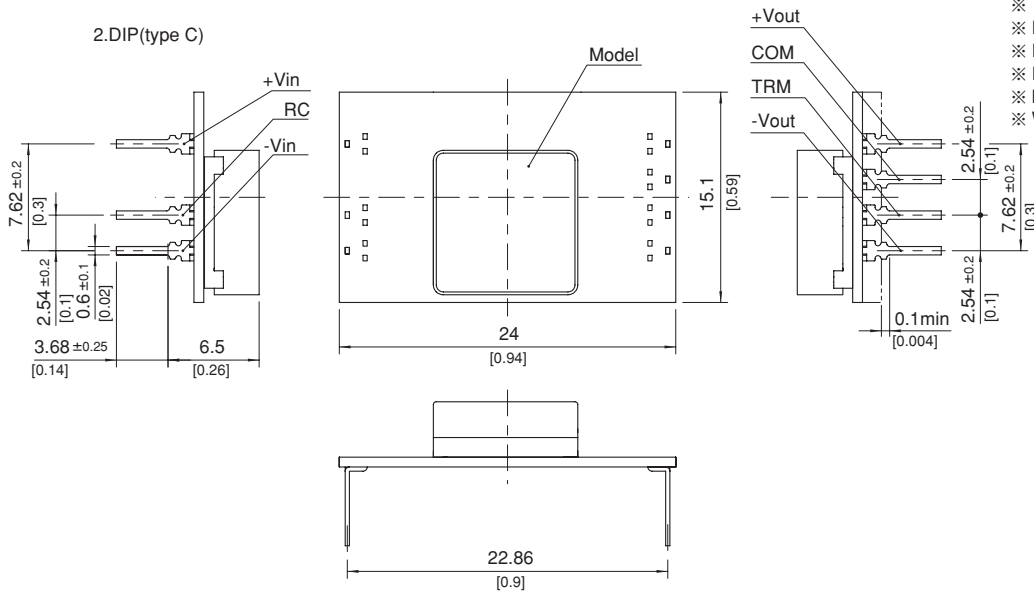
\* Parallel operation with other model is not possible.

External view

1.SMD(type B)



2.DIP(type C)



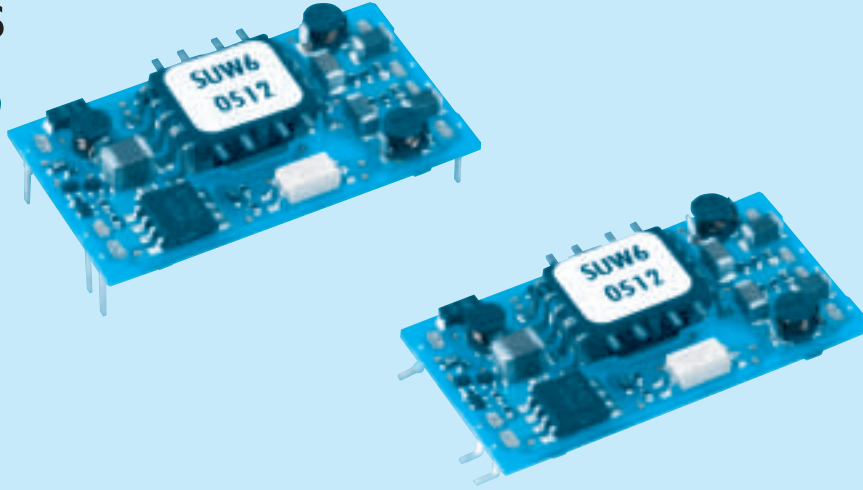
- ※ Tolerance  $\pm 0.5$  [ $\pm 0.02$ ]
- ※ Dimensions in mm, [ ]=inches
- ※ Pin terminal thickness :  $0.3 \pm 0.1$  [0.012]
- ※ Pin terminal material : Copper alloy
- ※ Plating treatment of terminal : Lead free plating
- ※ Weight : 3g max

SU W 6 12 12 B P - ☐

① ② ③ ④ ⑤ ⑥ ⑦ ⑧



RoHS



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

| MODEL                 |               | SUW60512    | SUW60515    | SUW61212    | SUW61215    | SUW62412    | SUW62415    | SUW64812    | SUW64815    |
|-----------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| MAX OUTPUT WATTAGE[W] |               | 6           | 6           | 6           | 6           | 6           | 6           | 6           | 6           |
| 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]    | 0.25        | 0.2         | 0.25        | 0.2         | 0.25        | 0.2         | 0.25        | 0.2         |

## SPECIFICATIONS

|                               | MODEL                                | SUW60512                                                                                     | SUW60515      | SUW61212      | SUW61215      | SUW62412      | SUW62415      | SUW64812      | SUW64815      |
|-------------------------------|--------------------------------------|----------------------------------------------------------------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| INPUT                         | VOLTAGE[V]                           | DC4.5 - 9                                                                                    |               | DC9 - 18      |               | DC18 - 36     |               | DC36 - 76     |               |
|                               | CURRENT[A] *2                        | 1.538typ                                                                                     | 1.538typ      | 0.588typ      | 0.588typ      | 0.291typ      | 0.291typ      | 0.145typ      | 0.145typ      |
|                               | EFFICIENCY[%] *2                     | 78typ                                                                                        | 78typ         | 85typ         | 85typ         | 86typ         | 86typ         | 86typ         | 86typ         |
| OUTPUT                        | VOLTAGE[V]                           | ± 12(+24)                                                                                    | ± 15(+30)     | ± 12(+24)     | ± 15(+30)     | ± 12(+24)     | ± 15(+30)     | ± 12(+24)     | ± 15(+30)     |
|                               | CURRENT[A]                           | 0.25                                                                                         | 0.2           | 0.25          | 0.2           | 0.25          | 0.2           | 0.25          | 0.2           |
|                               | 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°C *3                                                                              | 120max        | 120max        | 120max        | 120max        | 120max        | 120max        | 120max        |
|                               |                                      | -40 to -20°C *3                                                                              | 150max        | 150max        | 150max        | 150max        | 150max        | 150max        | 150max        |
|                               | RIPPLE NOISE[mVp-p]                  | -20 to +55°C *3                                                                              | 150max        | 150max        | 150max        | 150max        | 150max        | 150max        | 150max        |
|                               |                                      | -40 to -20°C *3                                                                              | 200max        | 200max        | 200max        | 200max        | 200max        | 200max        | 200max        |
|                               | TEMPERATURE REGULATION[mV]           | -20 to +55°C                                                                                 | 150max        | 180max        | 150max        | 180max        | 150max        | 180max        | 180max        |
|                               |                                      | -40 to +55°C                                                                                 | 240max        | 290max        | 240max        | 290max        | 240max        | 290max        | 290max        |
| PROTECTION CIRCUIT AND OTHERS | DRIFT[mV] *4                         | 50max                                                                                        | 60max         | 50max         | 60max         | 50max         | 60max         | 50max         | 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] (±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 |
|                               | OVERCURRENT PROTECTION               | Works over 105% of rating and recovers automatically                                         |               |               |               |               |               |               |               |
| ISOLATION                     | REMOTE ON/OFF                        | Provided (Negative logic L : ON, H : OFF)                                                    |               |               |               |               |               |               |               |
|                               | INPUT-OUTPUT                         | AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)                             |               |               |               |               |               |               |               |
| ENVIRONMENT                   | OPERATING TEMP., HUMID. AND ALTITUDE | -40 to +85°C, 20 - 95%RH (Non condensing) (Required Derating), 3,000m (10,000feet) max       |               |               |               |               |               |               |               |
|                               | STORAGE TEMP., HUMID. AND ALTITUDE   | -40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max                          |               |               |               |               |               |               |               |
|                               | VIBRATION                            | 10 - 55Hz, 98.0m/s <sup>2</sup> (10G), 3minutes period, 60minutes each along X, Y and Z axis |               |               |               |               |               |               |               |
|                               | IMPACT                               | 490.3m/s <sup>2</sup> (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 Output pins can be connected in series to make a 24V/30V output.

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

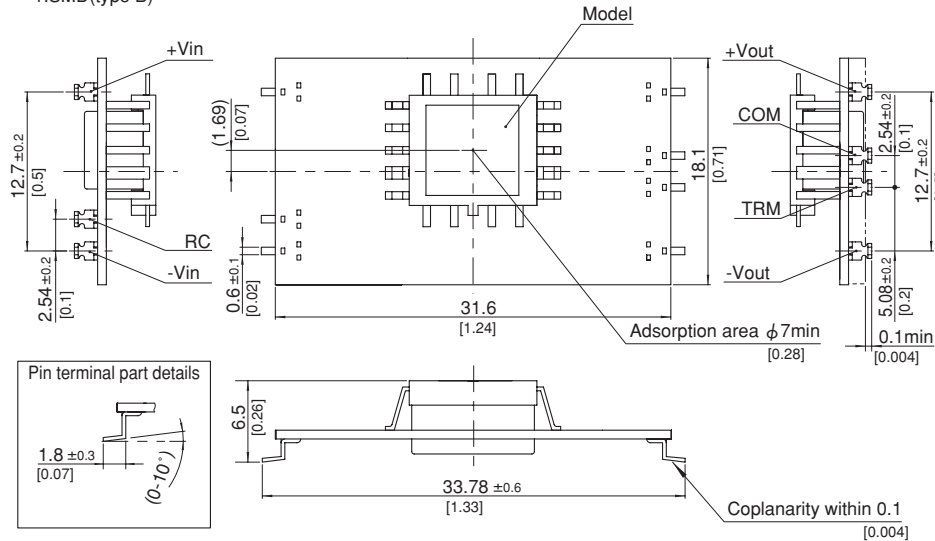
\*3 Ripple and Ripple Noise is measured by using measuring board with capacitor with in 25mm from output pin terminals.

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

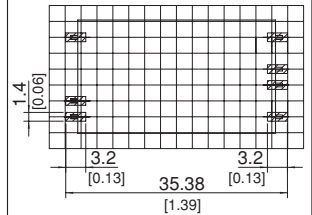
\* Parallel operation with other model is not possible.

## External view

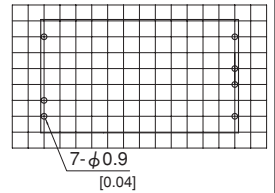
1.SMD(type B)

Recommended Pad and Hole dia.  
(TOP VIEW)

type B



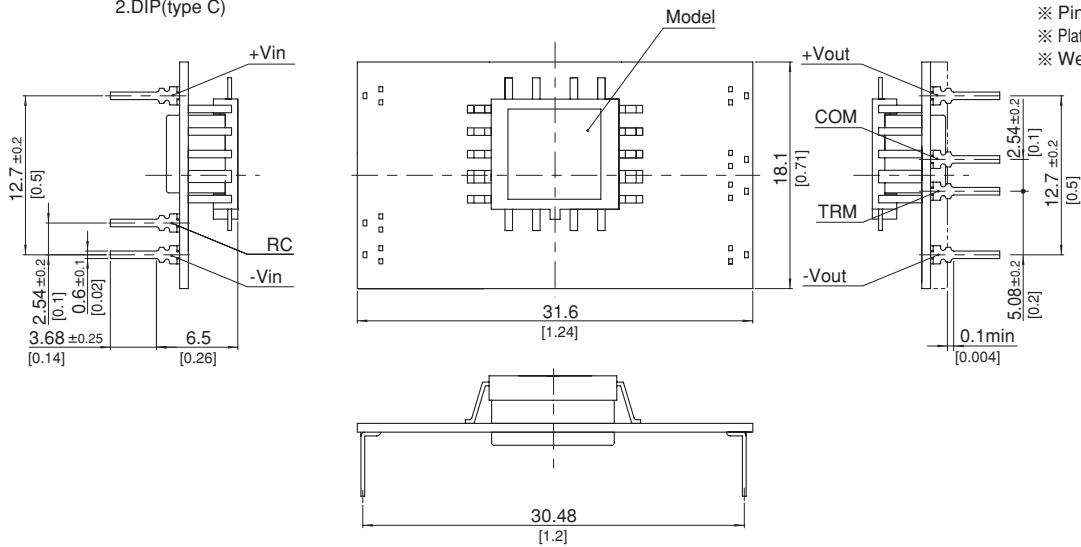
type C



Unit : 0.1inch  
Dimensions in mm, [ ]=inches

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

2.DIP(type C)



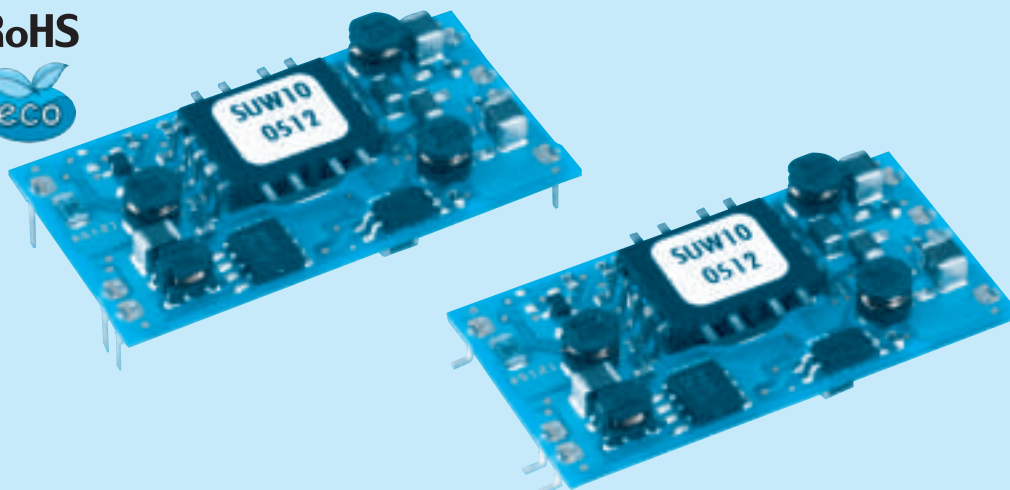
# SUW10

SU W 10 12 12 B P - ☐

① ② ③ ④ ⑤ ⑥ ⑦ ⑧



RoHS



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

| MODEL                 | SUW100512     | SUW100515   | SUW101212   | SUW101215   | SUW102412   | SUW102415   | SUW104812   | SUW104815   |
|-----------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| MAX OUTPUT WATTAGE[W] | 10.8          | 10.5        | 10.8        | 10.5        | 10.8        | 10.5        | 10.8        | 10.5        |
| 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 |
|                       | CURRENT[A]    | 0.45        | 0.35        | 0.45        | 0.35        | 0.45        | 0.35        | 0.45        |

## SPECIFICATIONS

|                               | MODEL                              | SUW100512                                                                                    | SUW100515     | SUW101212     | SUW101215     | SUW102412     | SUW102415     | SUW104812     | SUW104815     |
|-------------------------------|------------------------------------|----------------------------------------------------------------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| INPUT                         | VOLTAGE[V]                         | DC4.5 - 9                                                                                    |               | DC9 - 18      |               | DC18 - 36     |               | DC36 - 76     |               |
|                               | CURRENT[A] *2                      | 2.51typ                                                                                      | 2.44typ       | 1.05typ       | 1.02typ       | 0.523typ      | 0.509typ      | 0.262typ      | 0.254typ      |
|                               | EFFICIENCY[%] *2                   | 86typ                                                                                        | 86typ         | 86typ         | 86typ         | 86typ         | 86typ         | 86typ         | 86typ         |
| OUTPUT                        | VOLTAGE[V]                         | ± 12(+24)                                                                                    | ± 15(+30)     | ± 12(+24)     | ± 15(+30)     | ± 12(+24)     | ± 15(+30)     | ± 12(+24)     | ± 15(+30)     |
|                               | CURRENT[A]                         | 0.45                                                                                         | 0.35          | 0.45          | 0.35          | 0.45          | 0.35          | 0.45          | 0.35          |
|                               | 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        |
|                               |                                    | -40 to -20℃ *3                                                                               | 150max        | 150max        | 150max        | 150max        | 150max        | 150max        | 150max        |
|                               | RIPPLE NOISE[mVp-p]                | -20 to +55℃ *3                                                                               | 150max        | 150max        | 150max        | 150max        | 150max        | 150max        | 150max        |
|                               |                                    | -40 to -20℃ *3                                                                               | 200max        | 200max        | 200max        | 200max        | 200max        | 200max        | 200max        |
|                               | TEMPERATURE REGULATION[mV]         | -20 to +55℃                                                                                  | 150max        | 180max        | 150max        | 180max        | 150max        | 180max        | 150max        |
|                               |                                    | -40 to +55℃                                                                                  | 240max        | 290max        | 240max        | 290max        | 240max        | 290max        | 240max        |
| PROTECTION CIRCUIT AND OTHERS | DRIFT[mV] *4                       | 50max                                                                                        | 60max         | 50max         | 60max         | 50max         | 60max         | 50max         | 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] (±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 |
|                               | OVERCURRENT PROTECTION             | Works over 105% of rating and recovers automatically                                         |               |               |               |               |               |               |               |
| ISOLATION                     | REMOTE ON/OFF                      | Provided (Negative logic L : ON, H : OFF)                                                    |               |               |               |               |               |               |               |
|                               | 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 <sup>2</sup> (10G), 3minutes period, 60minutes each along X, Y and Z axis |               |               |               |               |               |               |               |
|                               | IMPACT                             | 490.3m/s <sup>2</sup> (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 Output pins can be connected in series to make a 24V/30V output.

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

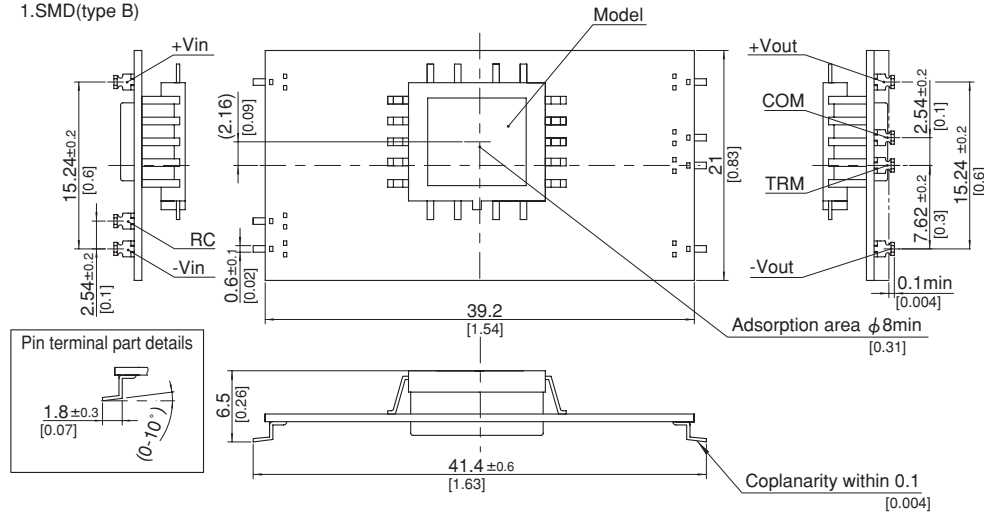
\*3 Ripple and Ripple Noise is measured by using measuring board with capacitor with in 25mm from output pin terminals.

\*4 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25℃.

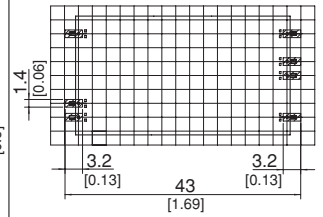
\* Parallel operation with other model is not possible.

## External view

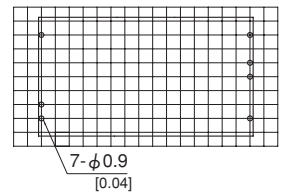
1.SMD(type B)

Recommended Pad and Hole dia.  
(TOP VIEW)

type B

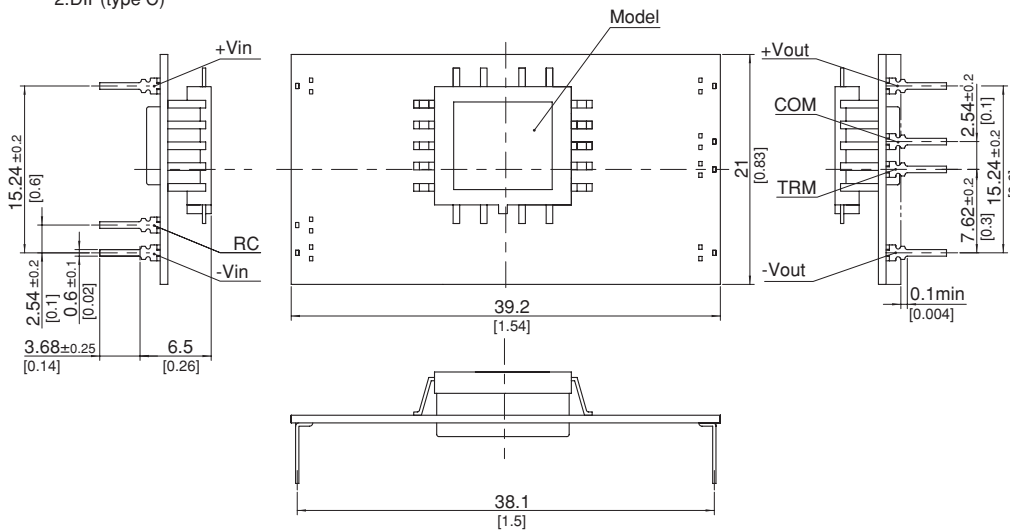


type C



Unit : 0.1inch  
Dimensions in mm, [ ]=inches

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

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