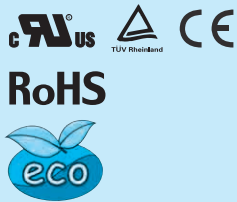


SUT S 3 12 05 -□

① ② ③ ④ ⑤ ⑥



- ① Series name  
② Single output  
③ Output wattage  
④ Input voltage  
⑤ Output voltage  
⑥ Optional  
G : Capacitor between Input and Output is removed.

| MODEL                 | SUTS3053R3    | SUTS30505 | SUTS30512 | SUTS30515 | SUTS3123R3 | SUTS31205 | SUTS31212 | SUTS31215 |
|-----------------------|---------------|-----------|-----------|-----------|------------|-----------|-----------|-----------|
| 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       | 0.25      |

## SPECIFICATIONS

|                               | MODEL                           | SUTS3053R3                                           | SUTS30505   | SUTS30512     | SUTS30515     | SUTS3123R3  | SUTS31205   | SUTS31212     | SUTS31215     |
|-------------------------------|---------------------------------|------------------------------------------------------|-------------|---------------|---------------|-------------|-------------|---------------|---------------|
| INPUT                         | VOLTAGE[V]                      | DC4.5 - 9                                            |             |               |               | DC9 - 18    |             |               |               |
|                               | CURRENT[A] *2                   | 0.550typ                                             | 0.800typ    | 0.780typ      | 0.780typ      | 0.223typ    | 0.325typ    | 0.317typ      | 0.321typ      |
|                               | EFFICIENCY[%] *2                | 72typ                                                | 75typ       | 77typ         | 77typ         | 74typ       | 77typ       | 79typ         | 78typ         |
| 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%)                       |             |               |               |             |             |               |               |
|                               | 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                 | SUTS3243R3    | SUTS32405 | SUTS32412 | SUTS32415 | SUTS3483R3 | SUTS34805 | SUTS34812 | SUTS34815 |
|-----------------------|---------------|-----------|-----------|-----------|------------|-----------|-----------|-----------|
| 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       | 0.25      |

## SPECIFICATIONS

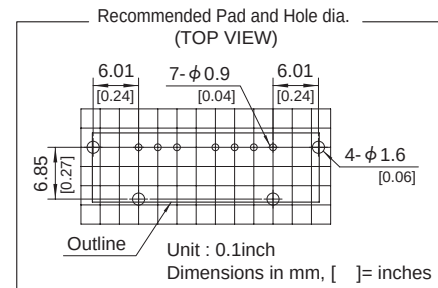
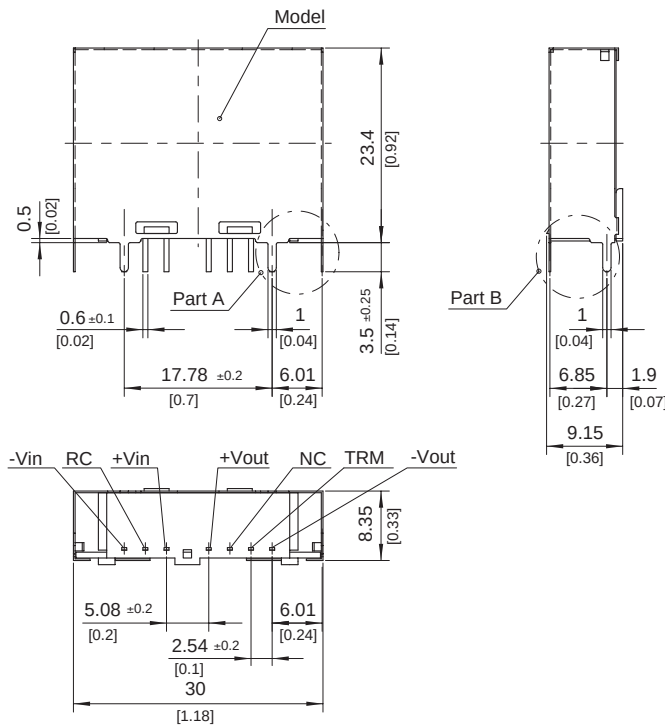
|                               | MODEL                           | SUTS3243R3                                           | SUTS32405   | SUTS32412     | SUTS32415     | SUTS3483R3  | SUTS34805   | SUTS34812     | SUTS34815     |
|-------------------------------|---------------------------------|------------------------------------------------------|-------------|---------------|---------------|-------------|-------------|---------------|---------------|
| INPUT                         | VOLTAGE[V]                      | DC18 - 36                                            |             |               |               | DC36 - 76   |             |               |               |
|                               | CURRENT[A] *2                   | 0.114typ                                             | 0.163typ    | 0.159typ      | 0.161typ      | 0.057typ    | 0.082typ    | 0.080typ      | 0.080typ      |
|                               | EFFICIENCY[%] *2                | 73typ                                                | 77typ       | 79typ         | 78typ         | 72typ       | 77typ       | 79typ         | 79typ         |
| 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%)                       |             |               |               |             |             |               |               |
|                               | 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 50M $\Omega$ min (20 $\pm$ 15 $^{\circ}$ C)         |
|             | INPUT-CASE                           | AC500V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (20 $\pm$ 15 $^{\circ}$ C)         |
|             | OUTPUT-CASE                          | AC500V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ 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 <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                     | 30.0 x 23.4 x 9.15mm [1.18 x 0.92 x 0.36 inches] (W x H x D) / 8g max                             |
|             | COOLING METHOD                       | Convection/Forced air                                                                             |

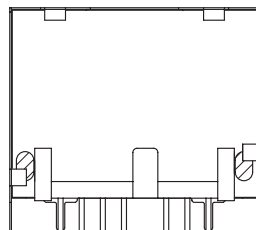
- \*1 SUTW3xx12/SUTW3xx15 is available as single output, +24V/+30V.  
 \*2 Rated input 5V, 12V, 24V or 48V DC Io=100%  
 \*3 Ripple and Ripple Noise is measured by using measuring board with capacitor with in 25mm from output pin terminals.  
 \*4 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25 $^{\circ}$ C.  
 \* Parallel operation with other model is not possible.

## External view



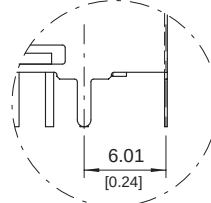
- ※ Tolerance  $\pm 0.5$  [ $\pm 0.02$ ]  
 ※ Dimensions in mm, [ ] = inches  
 ※ Pin terminal thickness :  $0.3 \pm 0.1$  [0.012]  
 ※ Pin terminal material : Copper alloy  
 ※ Plating treatment of terminal : Lead free plating  
 ※ Case thickness :  $0.2 \pm 0.05$  [0.008]  
 ※ Case material : Brass  
 ※ Plating treatment of case : Nickel plating  
 ※ Please keep enough creepage distance with the pattern on PCB and other components.  
 ※ Weight : 8g max

※ Back View

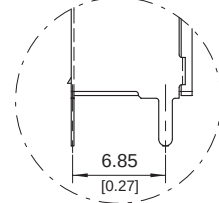


▨ : Conduction Area

Closeup of part A

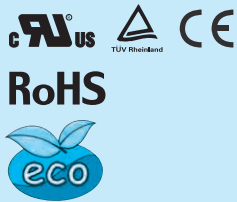


Closeup of part B



SUT S 6 12 05 -□

① ② ③ ④ ⑤ ⑥



- ① Series name  
 ② Single output  
 ③ Output wattage  
 ④ Input voltage  
 ⑤ Output voltage  
 ⑥ Optional  
 G : Capacitor between Input and Output is removed.

| MODEL                 | SUTS6053R3    | SUTS60505 | SUTS60512 | SUTS60515 | SUTS6123R3 | SUTS61205 | SUTS61212 | SUTS61215 |
|-----------------------|---------------|-----------|-----------|-----------|------------|-----------|-----------|-----------|
| 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        |
|                       | CURRENT[A]    | 1.2       | 1         | 0.5       | 0.4        | 1.35      | 1.2       | 0.5       |

## SPECIFICATIONS

|                               | MODEL                           | SUTS6053R3                                           | SUTS60505   | SUTS60512     | SUTS60515     | SUTS6123R3  | SUTS61205   | SUTS61212     | SUTS61215     |
|-------------------------------|---------------------------------|------------------------------------------------------|-------------|---------------|---------------|-------------|-------------|---------------|---------------|
| 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        |
|                               |                                 | -40 to -20℃ *3                                       | 120max      | 120max        | 150max        | 150max      | 120max      | 120max        | 150max        |
|                               | RIPPLE NOISE[mVp-p]             | -20 to +55℃ *3                                       | 120max      | 120max        | 150max        | 150max      | 120max      | 120max        | 150max        |
|                               |                                 | -40 to -20℃ *3                                       | 200max      | 200max        | 200max        | 200max      | 200max      | 200max        | 200max        |
|                               | TEMPERATURE REGULATION[mV]      | -20 to +55℃                                          | 50max       | 50max         | 150max        | 180max      | 50max       | 50max         | 150max        |
|                               |                                 | -40 to +55℃                                          | 80max       | 80max         | 240max        | 290max      | 80max       | 80max         | 240max        |
|                               | DRIFT[mV] *4                    | 20max                                                | 20max       | 48max         | 60max         | 20max       | 20max       | 48max         | 60max         |
| PROTECTION CIRCUIT AND 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] (±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 |             |               |               |             |             |               |               |
| PROTECTION CIRCUIT AND OTHERS | REMOTE ON/OFF                   | Provided (Negative logic L : ON, H : OFF)            |             |               |               |             |             |               |               |

| MODEL                 | SUTS6243R3    | SUTS62405 | SUTS62412 | SUTS62415 | SUTS6483R3 | SUTS64805 | SUTS64812 | SUTS64815 |
|-----------------------|---------------|-----------|-----------|-----------|------------|-----------|-----------|-----------|
| 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        |
|                       | CURRENT[A]    | 1.35      | 1.2       | 0.5       | 0.4        | 1.35      | 1.2       | 0.5       |

## SPECIFICATIONS

|                               | MODEL                           | SUTS6243R3                                           | SUTS62405   | SUTS62412     | SUTS62415     | SUTS6483R3  | SUTS64805   | SUTS64812     | SUTS64815     |
|-------------------------------|---------------------------------|------------------------------------------------------|-------------|---------------|---------------|-------------|-------------|---------------|---------------|
| 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        |
|                               |                                 | -40 to -20℃ *3                                       | 120max      | 120max        | 150max        | 150max      | 120max      | 120max        | 150max        |
|                               | RIPPLE NOISE[mVp-p]             | -20 to +55℃ *3                                       | 120max      | 120max        | 150max        | 150max      | 120max      | 120max        | 150max        |
|                               |                                 | -40 to -20℃ *3                                       | 200max      | 200max        | 200max        | 200max      | 200max      | 200max        | 200max        |
|                               | TEMPERATURE REGULATION[mV]      | -20 to +55℃                                          | 50max       | 50max         | 150max        | 180max      | 50max       | 50max         | 150max        |
|                               |                                 | -40 to +55℃                                          | 80max       | 80max         | 240max        | 290max      | 80max       | 80max         | 240max        |
|                               | DRIFT[mV] *4                    | 20max                                                | 20max       | 48max         | 60max         | 20max       | 20max       | 48max         | 60max         |
| PROTECTION CIRCUIT AND 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] (±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 |             |               |               |             |             |               |               |
| PROTECTION CIRCUIT AND OTHERS | REMOTE ON/OFF                   | Provided (Negative logic L : ON, H : OFF)            |             |               |               |             |             |               |               |

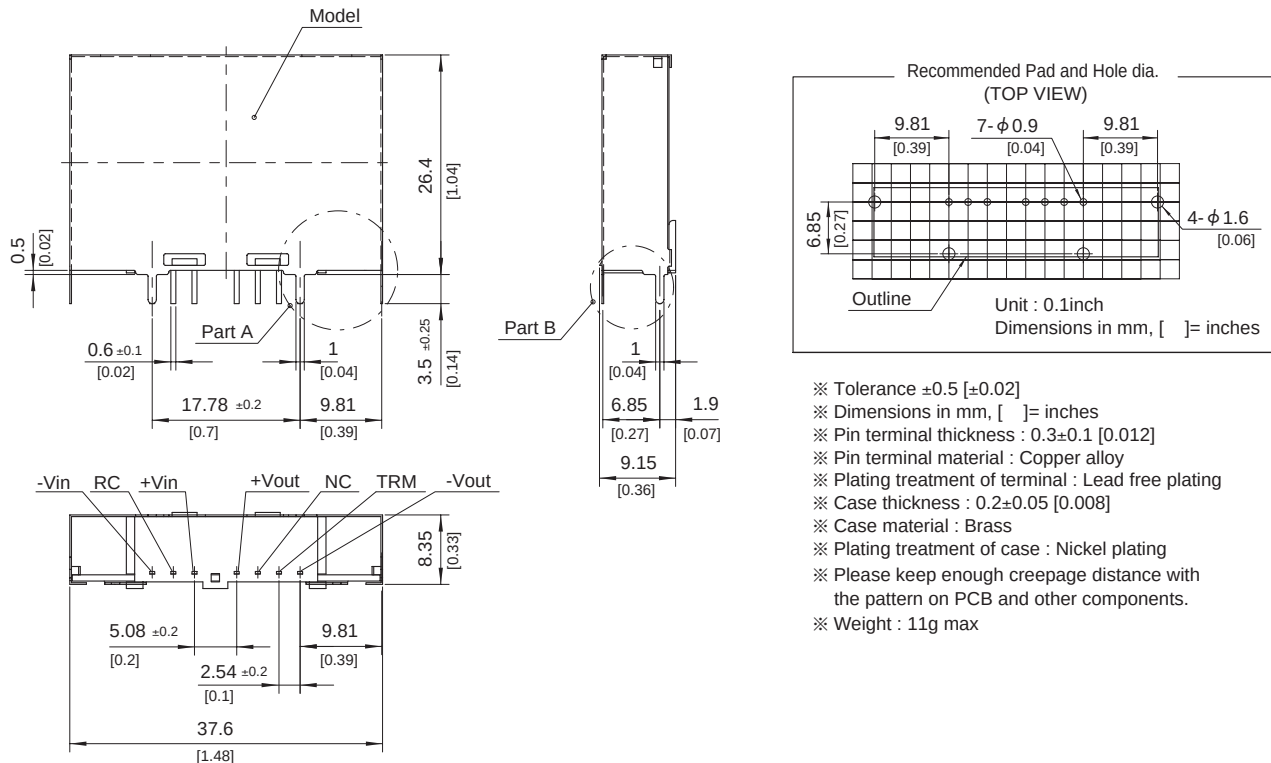
## GENERAL SPECIFICATIONS

|             |                                      |                                                                                                                  |
|-------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------|
| ISOLATION   | INPUT-OUTPUT                         | AC500V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (20 $\pm$ 15 $^{\circ}$ C)                        |
|             | INPUT-CASE                           | AC500V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (20 $\pm$ 15 $^{\circ}$ C)                        |
|             | OUTPUT-CASE                          | AC500V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ 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                     | 37.6 $\times$ 26.4 $\times$ 9.15mm [1.48 $\times$ 1.04 $\times$ 0.36 inches] (W $\times$ H $\times$ D) / 11g max |
|             | COOLING METHOD                       | Convection/Forced air                                                                                            |

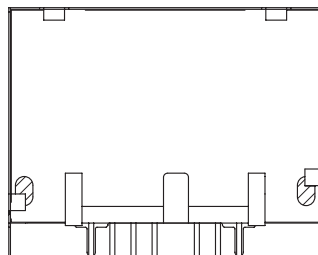
- \*1 SUTW6xx12/SUTW6xx15 is available as single output, +24V/+30V.  
 \*2 Rated input 5V, 12V, 24V or 48V DC Io=100%  
 \*3 Ripple and Ripple Noise is measured by using measuring board with capacitor with in 25mm from output pin terminals.  
 \*4 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25 $^{\circ}$ C.  
 \* Parallel operation with other model is not possible.

## External view

SU-SUC/SUT

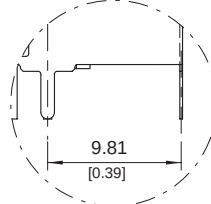


※ Back View

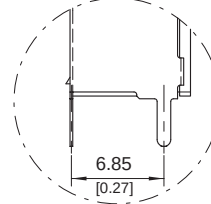


: Conduction Area

Closeup of part A



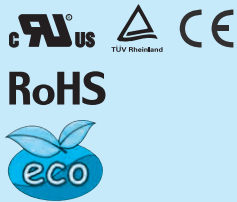
Closeup of part B



## SUTS10

SUT S 10 12 05 - ☐

① ② ③ ④ ⑤ ⑥



- ① Series name  
 ② Single output  
 ③ Output wattage  
 ④ Input voltage  
 ⑤ Output voltage  
 ⑥ Optional  
 G :Capacitor between Input and Output is removed.

| MODEL                 | SUTS10053R3   | SUTS100505 | SUTS100512 | SUTS100515 | SUTS10123R3 | SUTS101205 | SUTS101212 | SUTS101215 |
|-----------------------|---------------|------------|------------|------------|-------------|------------|------------|------------|
| 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          |

## SPECIFICATIONS

|                               | MODEL                           | SUTS10053R3                                          | SUTS100505  | SUTS100512    | SUTS100515    | SUTS10123R3 | SUTS101205  | SUTS101212    | SUTS101215    |
|-------------------------------|---------------------------------|------------------------------------------------------|-------------|---------------|---------------|-------------|-------------|---------------|---------------|
| 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%)                       |             |               |               |             |             |               |               |
|                               | 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                 | SUTS10243R3   | SUTS102405 | SUTS102412 | SUTS102415 | SUTS10483R3 | SUTS104805 | SUTS104812 | SUTS104815 |
|-----------------------|---------------|------------|------------|------------|-------------|------------|------------|------------|
| 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          |

## SPECIFICATIONS

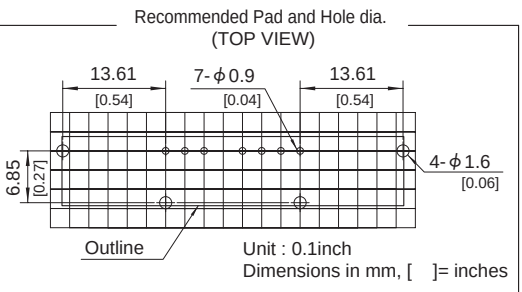
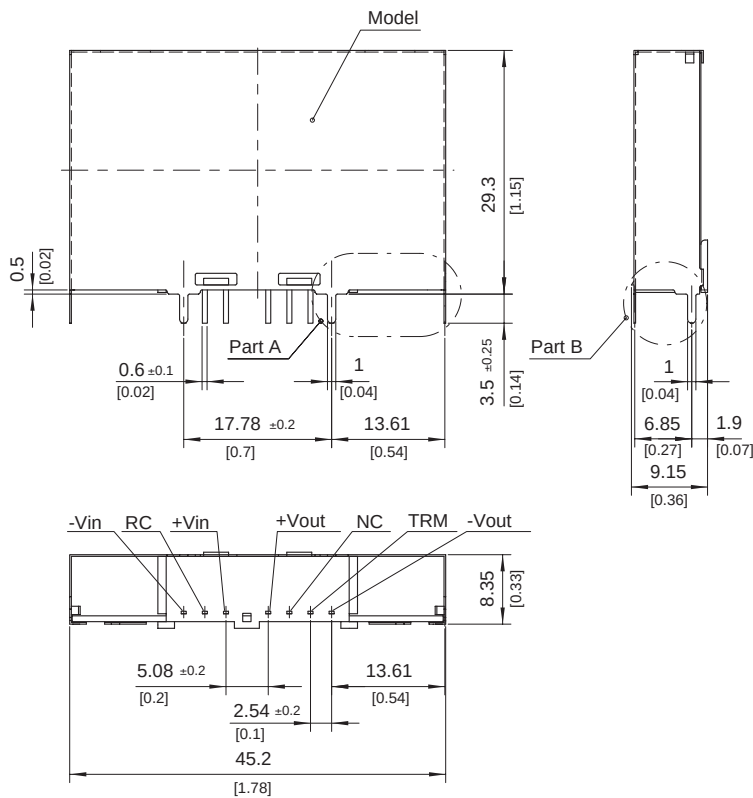
|                               | MODEL                           | SUTS10243R3                                          | SUTS102405  | SUTS102412    | SUTS102415    | SUTS10483R3 | SUTS104805  | SUTS104812    | SUTS104815    |
|-------------------------------|---------------------------------|------------------------------------------------------|-------------|---------------|---------------|-------------|-------------|---------------|---------------|
| 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%)                       |             |               |               |             |             |               |               |
|                               | 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 50M $\Omega$ min (20 $\pm$ 15 $^{\circ}$ C)                        |
|             | INPUT-CASE                           | AC500V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (20 $\pm$ 15 $^{\circ}$ C)                        |
|             | OUTPUT-CASE                          | AC500V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ 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 <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                     | 45.2 $\times$ 29.3 $\times$ 9.15mm [1.78 $\times$ 1.15 $\times$ 0.36 inches] (W $\times$ H $\times$ D) / 14g max |
|             | COOLING METHOD                       | Convection/Forced air                                                                                            |

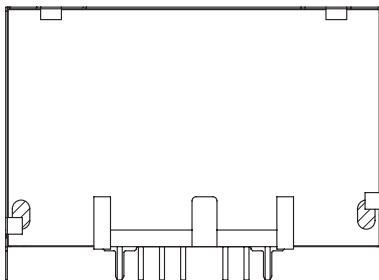
- \*1 SUTW10xx12/SUTW10xx15 is available as single output, +24V/+30V.
- \*2 Rated input 5V, 12V, 24V or 48V DC I<sub>o</sub>=100%
- \*3 Ripple and Ripple Noise is measured by using measuring board with capacitor with in 25mm from output pin terminals.
- \*4 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25 $^{\circ}$ C.
- \* Parallel operation with other model is not possible.

## External view

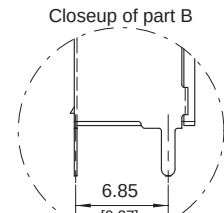
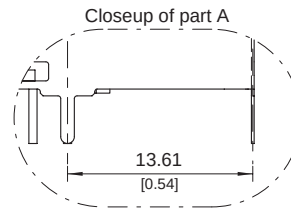


- \* Tolerance  $\pm 0.5$  [ $\pm 0.02$ ]
- \* Dimensions in mm, [ ] = inches
- \* Pin terminal thickness :  $0.3 \pm 0.1$  [0.012]
- \* Pin terminal material : Copper alloy
- \* Plating treatment of terminal : Lead free plating
- \* Case thickness :  $0.2 \pm 0.05$  [0.008]
- \* Case material : Brass
- \* Plating treatment of case : Nickel plating
- \* Please keep enough creepage distance with the pattern on PCB and other components.
- \* Weight : 14g max

※ Back View



▨ : Conduction Area



# Mouser Electronics

Authorized Distributor

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## Cosel:

[SUTS102412-G](#) [SUTS3243R3](#) [SUTS60512](#) [SUTS100512](#) [SUTS61205](#) [SUTS31205](#) [SUTS101205](#) [SUTS34812](#)  
[SUTS6243R3](#) [SUTS64812](#) [SUTS104812](#) [SUTS3123R3](#) [SUTS10123R3](#) [SUTS102412](#) [SUTS62412](#) [SUTS102415-G](#)  
[SUTS61215](#) [SUTS6053R3](#) [SUTS32405-G](#) [SUTS6483R3](#) [SUTS104805](#) [SUTS101215](#) [SUTS60515](#) [SUTS101212](#)  
[SUTS10243R3-G](#) [SUTS3243R3-G](#) [SUTS62405](#) [SUTS3053R3](#) [SUTS34815](#) [SUTS32405](#) [SUTS30515](#)  
[SUTS102405-G](#) [SUTS61212](#) [SUTS31212](#) [SUTS102405](#) [SUTS100505](#) [SUTS32412](#) [SUTS60505](#) [SUTS64805](#)  
[SUTS10053R3](#) [SUTS62405-G](#) [SUTS31215](#) [SUTS3483R3](#) [SUTS30512](#) [SUTS10483R3](#) [SUTS100515](#)  
[SUTS6243R3-G](#) [SUTS104815](#) [SUTS32412-G](#) [SUTS10243R3](#) [SUTS6123R3](#) [SUTS30505](#) [SUTS62415-G](#)  
[SUTS32415-G](#) [SUTS34805](#) [SUTS62415](#) [SUTS32415](#) [SUTS102415](#) [SUTS62412-G](#) [SUTS64815](#)



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;
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- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
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- 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:

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- 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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