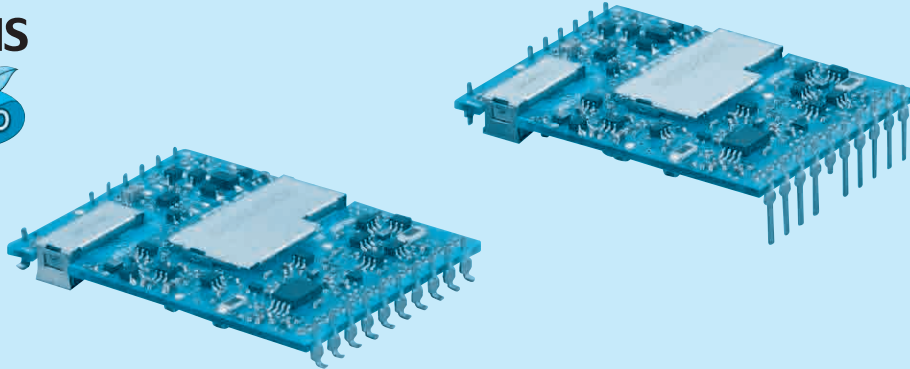
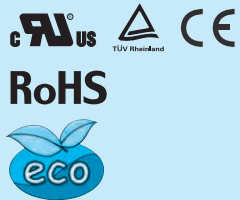


SFS10

SF S 10 48 3R3 B

① ② ③ ④ ⑤ ⑥



- ① Series name
- ② Single output
- ③ Output wattage
- ④ Input voltage
48:DC36 - 76V
- ⑤ Output voltage
- ⑥ Mounting type
(Soldering process)
B : SMD(Pb-free solder)
C : DIP(Pb-free solder)

SFS/SPCS

| MODEL | SFS10481R2 | SFS10481R5 | SFS10481R8 | SFS104802 | SFS10482R5 | SFS10483R3 | SFS104805 | SFS104812 | SFS104815 |
|-----------------------|------------|------------|------------|-----------|------------|------------|-----------|-----------|-----------|
| MAX OUTPUT WATTAGE[W] | 4.2 | 5.25 | 5.4 | 6.0 | 7.5 | 9.9 | 10.0 | 10.8 | 10.5 |
| DC OUTPUT | 1.2V 3.5A | 1.5V 3.5A | 1.8V 3A | 2V 3A | 2.5V 3A | 3.3V 3A | 5V 2A | 12V 0.9A | 15V 0.7A |

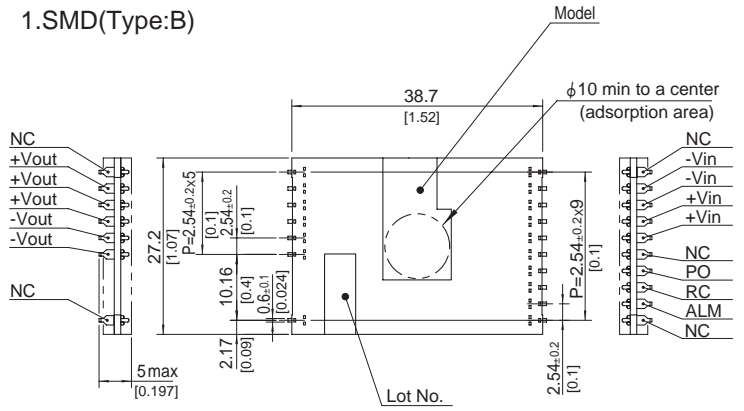
SPECIFICATIONS

| | MODEL | SFS10481R2 | SFS10481R5 | SFS10481R8 | SFS104802 | SFS10482R5 | SFS10483R3 | SFS104805 | SFS104812 | SFS104815 | |
|-------------------------------|------------------------------------|--|------------|------------|-----------|------------|------------|-----------|-----------|-----------|--|
| INPUT | VOLTAGE[V] | DC36 - 76 | | | | | | | | | |
| | CURRENT[A] | *1 0.11typ | 0.13typ | 0.13typ | 0.15typ | 0.18typ | 0.23typ | 0.23typ | 0.26typ | 0.25typ | |
| | EFFICIENCY[%] | *1 80typ | 82typ | 84typ | 85typ | 86typ | 88typ | 89typ | 88typ | 88typ | |
| | START-UP VOLTAGE[V] | DC32 - 36 | | | | | | | | | |
| | HYSTERESIS VOLTAGE[V] | DC2 min | | | | | | | | | |
| OUTPUT | VOLTAGE[V] | 1.2 | 1.5 | 1.8 | 2 | 2.5 | 3.3 | 5 | 12 | 15 | |
| | CURRENT[A] | 3.5 | 3.5 | 3 | 3 | 3 | 3 | 2 | 0.9 | 0.7 | |
| | VOLTAGE ACCURACY[%] | +5, -3 | | | | | | | | | |
| | RIPPLE[mVp-p] | 25max | | | | | | | 120max | | |
| | RIPPLE NOISE[mVp-p] | 50max | | | | | | | 150max | | |
| | START-UP TIME[ms] | 20 - 200max (DCIN 48V, Io=100%) | | | | | | | | | |
| PROTECTION CIRCUIT AND OTHERS | OVERCURRENT PROTECTION | Works over 103% of rating | | | | | | | | | |
| | OVERVOLTAGE PROTECTION | Works at 120 - 140% of rating | | | | | | | | | |
| | LOWVOLTAGE PROTECTION | Works at 90% max of rating | | | | | | | | | |
| | REMOTE ON/OFF | Provided(RC open : ON, short between RC and +Vin : OFF) | | | | | | | | | |
| ISOLATION | INPUT-OUTPUT | DC1,500V 1minute, DC500V 50MΩ min (20±15℃) | | | | | | | | | |
| ENVIRONMENT | OPERATING TEMP.,HUMID.AND ALTITUDE | -40 to +85℃, 20 - 95%RH (Non condensing), 3,000m (10,000feet) max | | | | | | | | | |
| | STORAGE TEMP.,HUMID.AND ALTITUDE | -40 to +100℃, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max (SMD:Refer to the Instruction Manual) | | | | | | | | | |
| | VIBRATION | 10 - 55Hz, 49.0m/s ² (5G), 3minutes period, 60minutes each along X, Y and Z axis | | | | | | | | | |
| | IMPACT | 196.1m/s ² (20G), 11ms, once each X, Y and Z axis | | | | | | | | | |
| SAFETY | AGENCY APPROVALS | UL60950-1, C-UL (CSA60950-1), EN60950-1 | | | | | | | | | |
| OTHERS | CASE SIZE/WEIGHT | 38.7×5.0×27.2mm [1.52×0.197×1.07 inches] (W×H×D) /12g max | | | | | | | | | |
| | COOLING METHOD | Convection | | | | | | | | | |

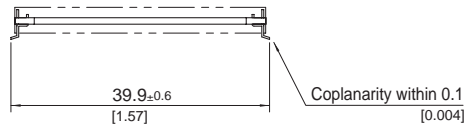
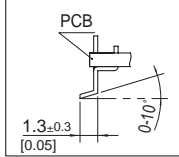
*1 At rated input(DC48V), rated load and 25℃

External view

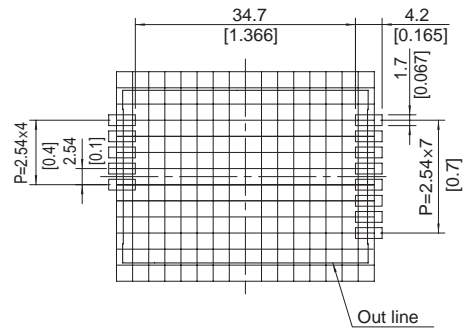
1.SMD(Type:B)



Terminal part details



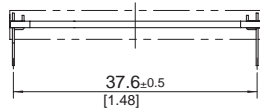
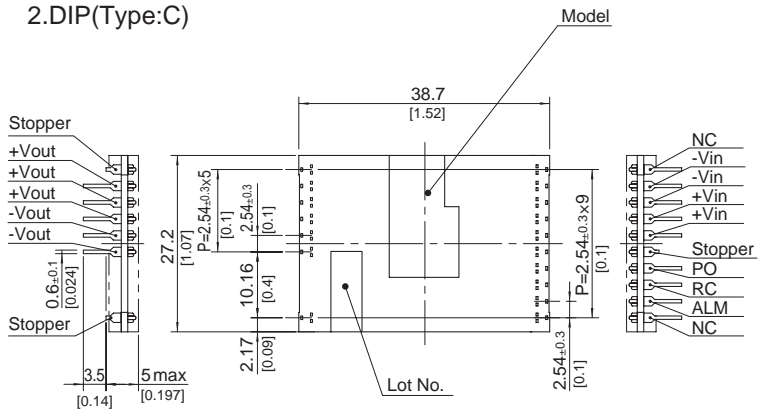
Recommended size for processing PCB (TOP VIEW)



※Dimensions in: $\frac{mm}{[inch]}$

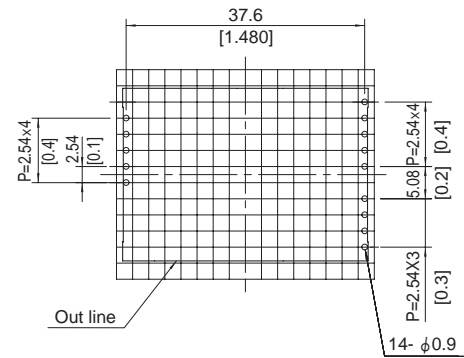
※Div.: 0.1inch

2.DIP(Type:C)



※Dimensions in mm, []= inches
 ※Tolerance $\pm 0.5 [\pm 0.02]$
 ※Weight: 12g max

Recommended size for processing PCB (TOP VIEW)



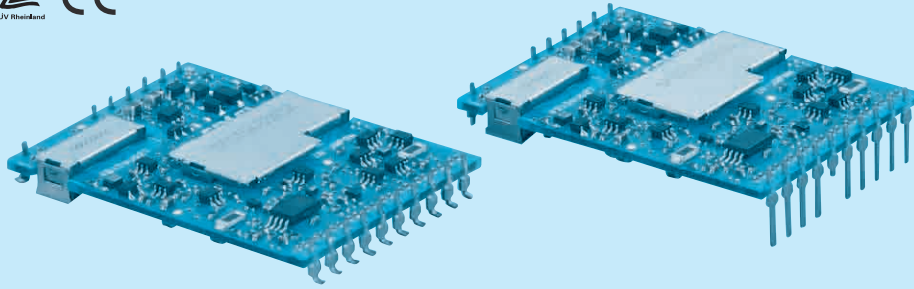
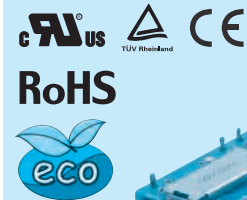
※Dimensions in: $\frac{mm}{[inch]}$

※Div.: 0.1inch

SFS15

SF S 15 48 3R3 B

① ② ③ ④ ⑤ ⑥



- ① Series name
- ② Single output
- ③ Output wattage
- ④ Input voltage
24:DC18 - 36V
48:DC36 - 76V
- ⑤ Output voltage
- ⑥ Mounting type
(Soldering process)
B : SMD(Pb-free solder)
C : DIP(Pb-free solder)

| MODEL | SFS15241R5 | SFS15241R8 | SFS15242R5 | SFS15243R3 | SFS152405 | SFS152412 | SFS152415 |
|-----------------------|------------|------------|------------|------------|-----------|-----------|-----------|
| MAX OUTPUT WATTAGE[W] | 7.8 | 8.1 | 11.25 | 14.85 | 15.0 | 15.0 | 15.0 |
| DC OUTPUT | 1.5V 5.2A | 1.8V 4.5A | 2.5V 4.5A | 3.3V 4.5A | 5V 3A | 12V 1.25A | 15V 1A |

SFS/SFCS

SPECIFICATIONS

| | MODEL | SFS15241R5 | SFS15241R8 | SFS15242R5 | SFS15243R3 | SFS152405 | SFS152412 | SFS152415 |
|-------------------------------|---------------------------|---|------------|------------|------------|-----------|-----------|-----------|
| INPUT | VOLTAGE[V] | DC18 - 36 | | | | | | |
| | CURRENT[A] | *1 0.39typ | 0.4typ | 0.54typ | 0.7typ | 0.69typ | 0.7typ | 0.7typ |
| | EFFICIENCY[%] | *1 83typ | 85typ | 87typ | 89typ | 90typ | 89typ | 89typ |
| | START-UP VOLTAGE[V] | DC16 - 18 | | | | | | |
| | HYSTERESIS VOLTAGE[V] | DC1 min | | | | | | |
| OUTPUT | VOLTAGE[V] | 1.5 | 1.8 | 2.5 | 3.3 | 5 | 12 | 15 |
| | CURRENT[A] | 5.2 | 4.5 | 4.5 | 4.5 | 3 | 1.25 | 1 |
| | VOLTAGE ACCURACY[%] | +5, -3 | | | | | | |
| | RIPPLE[mVp-p] | 25max | | | | | 120max | |
| | RIPPLE NOISE[mVp-p] | 50max | | | | | 150max | |
| | START-UP TIME[ms] | 20 - 200max (DCIN 24V, Io=100%) | | | | | | |
| | OUTPUT VOLTAGE SETTING *1 | ±1% of rated output voltage | | | | | | |
| PROTECTION CIRCUIT AND OTHERS | OVERCURRENT PROTECTION | Works over 103% of rating | | | | | | |
| | OVERVOLTAGE PROTECTION | Works at 120 - 140% of rating | | | | | | |
| | LOWVOLTAGE PROTECTION | Works at 90% max of rating | | | | | | |
| | REMOTE ON/OFF | Provided(RC open : ON, short between RC and +Vin : OFF) | | | | | | |

| MODEL | SFS15481R2 | SFS15481R5 | SFS15481R8 | SFS154802 | SFS15482R5 | SFS15483R3 | SFS154805 | SFS154812 | SFS154815 |
|-----------------------|------------|------------|------------|-----------|------------|------------|-----------|-----------|-----------|
| MAX OUTPUT WATTAGE[W] | 6.24 | 7.8 | 8.1 | 9.0 | 11.25 | 14.85 | 15.0 | 15.0 | 15.0 |
| DC OUTPUT | 1.2V 5.2A | 1.5V 5.2A | 1.8V 4.5A | 2V 4.5A | 2.5V 4.5A | 3.3V 4.5A | 5V 3A | 12V 1.25A | 15V 1A |

SPECIFICATIONS

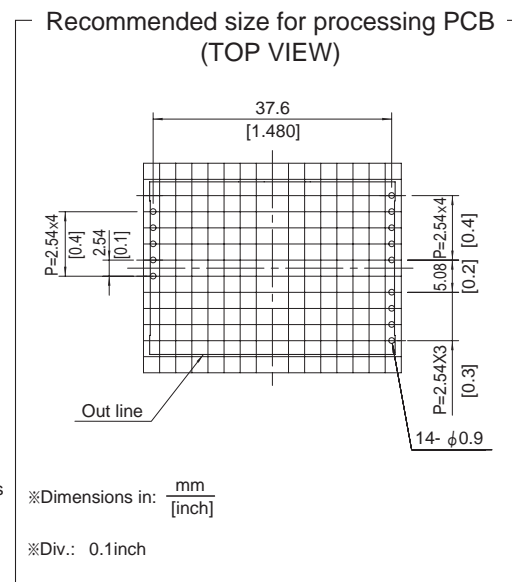
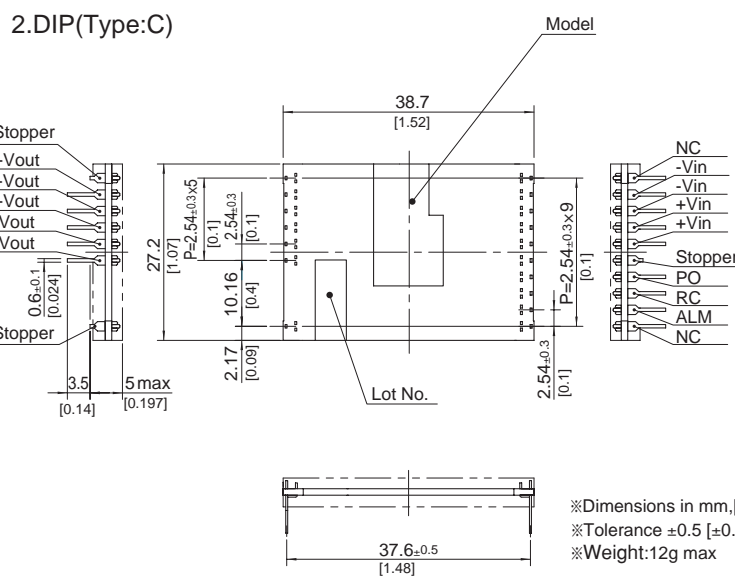
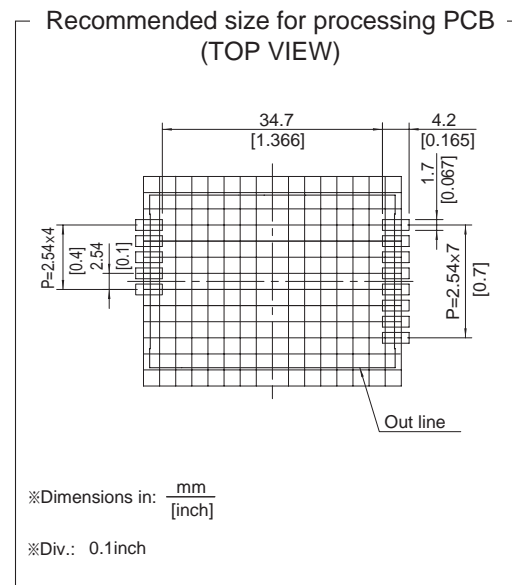
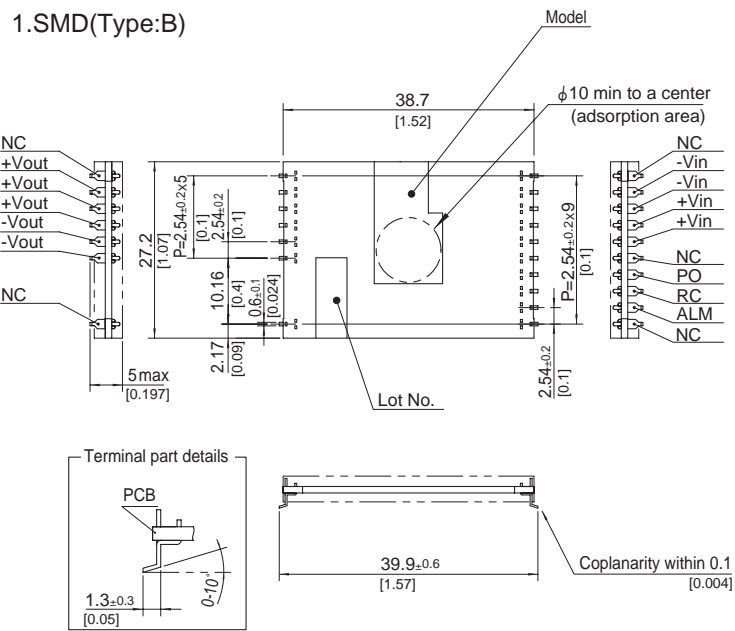
| | MODEL | SFS15481R2 | SFS15481R5 | SFS15481R8 | SFS154802 | SFS15482R5 | SFS15483R3 | SFS154805 | SFS154812 | SFS154815 |
|-------------------------------|---------------------------|---|------------|------------|-----------|------------|------------|-----------|-----------|-----------|
| INPUT | VOLTAGE[V] | DC36 - 76 | | | | | | | | |
| | CURRENT[A] | *1 0.16typ | 0.2typ | 0.2typ | 0.22typ | 0.27typ | 0.35typ | 0.35typ | 0.35typ | 0.35typ |
| | EFFICIENCY[%] | *1 82typ | 83typ | 85typ | 86typ | 87typ | 89typ | 90typ | 89typ | 89typ |
| | START-UP VOLTAGE[V] | DC32 - 36 | | | | | | | | |
| | HYSTERESIS VOLTAGE[V] | DC2 min | | | | | | | | |
| OUTPUT | VOLTAGE[V] | 1.2 | 1.5 | 1.8 | 2 | 2.5 | 3.3 | 5 | 12 | 15 |
| | CURRENT[A] | 5.2 | 5.2 | 4.5 | 4.5 | 4.5 | 4.5 | 3 | 1.25 | 1 |
| | VOLTAGE ACCURACY[%] | +5, -3 | | | | | | | | |
| | RIPPLE[mVp-p] | 25max | | | | | | | 120max | |
| | RIPPLE NOISE[mVp-p] | 50max | | | | | | | 150max | |
| | START-UP TIME[ms] | 20 - 200max (DCIN 48V, Io=100%) | | | | | | | | |
| | OUTPUT VOLTAGE SETTING *1 | ±1% of rated output voltage | | | | | | | | |
| PROTECTION CIRCUIT AND OTHERS | OVERCURRENT PROTECTION | Works over 103% of rating | | | | | | | | |
| | OVERVOLTAGE PROTECTION | Works at 120 - 140% of rating | | | | | | | | |
| | LOWVOLTAGE PROTECTION | Works at 90% max of rating | | | | | | | | |
| | REMOTE ON/OFF | Provided(RC open : ON, short between RC and +Vin : OFF) | | | | | | | | |

GENERAL SPECIFICATIONS

| | | |
|--------------------|---|---|
| ISOLATION | INPUT-OUTPUT | DC1.500V 1minute, DC500V 50MΩ min (20±15°C) |
| ENVIRONMENT | OPERATING TEMP.,HUMID.AND ALTITUDE | -40 to +85°C, 20 - 95%RH (Non condensing), 3,000m (10,000feet) max |
| | STORAGE TEMP.,HUMID.AND ALTITUDE | -40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max (SMD:Refer to the Instruction Manual) |
| | VIBRATION | 10 - 55Hz, 49.0m/s ² (5G), 3minutes period, 60minutes each along X, Y and Z axis |
| | IMPACT | 196.1m/s ² (20G), 11ms, once each X, Y and Z axis |
| SAFETY | AGENCY APPROVALS | UL60950-1, C-UL (CSA60950-1), EN60950-1 |
| OTHERS | CASE SIZE/WEIGHT | 38.7 X 5.0 X 27.2mm [1.52 X 0.197 X 1.07 inches] (W X H X D) /12g max |
| | COOLING METHOD | Convection |

*1 At rated input(DC24V, DC48V), rated load and 25°C

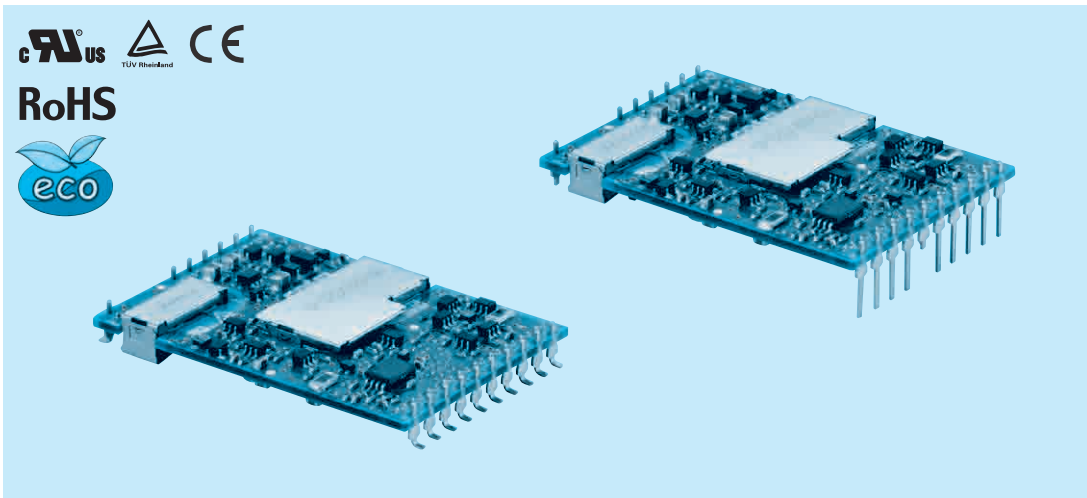
External view



SFS20

SF S 20 48 3R3 B

① ② ③ ④ ⑤ ⑥



- ① Series name
- ② Single output
- ③ Output wattage
- ④ Input voltage
48:DC36 - 76V
- ⑤ Output voltage
- ⑥ Mounting type
(Soldering process)
B : SMD(Pb-free solder)
C : DIP(Pb-free solder)

SFS/SPCS

| MODEL | SFS20481R5 | SFS20481R8 | SFS20482R5 | SFS20483R3 | SFS204805 |
|-----------------------|------------|------------|------------|------------|-----------|
| MAX OUTPUT WATTAGE[W] | 13.5 | 14.4 | 17.5 | 19.8 | 20.0 |
| DC OUTPUT | 1.5V 9A | 1.8V 8A | 2.5V 7A | 3.3V 6A | 5V 4A |

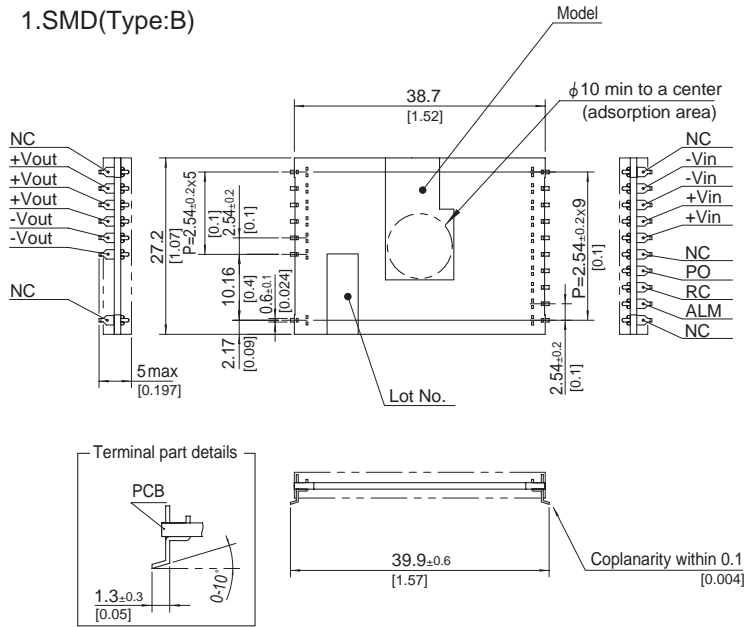
SPECIFICATIONS

| | MODEL | SFS20481R5 | SFS20481R8 | SFS20482R5 | SFS20483R3 | SFS204805 |
|-------------------------------|------------------------------------|--|------------|------------|------------|-----------|
| INPUT | VOLTAGE[V] | DC36 - 76 | | | | |
| | CURRENT[A] | *1 0.33typ | 0.35typ | 0.41typ | 0.46typ | 0.46typ |
| | EFFICIENCY[%] | *1 86typ | 85typ | 88typ | 90typ | 90typ |
| | START-UP VOLTAGE[V] | DC32 - 36 | | | | |
| | HYSTERESIS VOLTAGE[V] | DC2 min | | | | |
| OUTPUT | VOLTAGE[V] | 1.5 | 1.8 | 2.5 | 3.3 | 5 |
| | CURRENT[A] | 9 | 8 | 7 | 6 | 4 |
| | VOLTAGE ACCURACY[%] | +5, -3 | | | | |
| | RIPPLE[mVp-p] | 50max | | | | |
| | RIPPLE NOISE[mVp-p] | 50max | | | | |
| | START-UP TIME[ms] | 20 - 200max (DCIN 48V, Io=100%) | | | | |
| | OUTPUT VOLTAGE SETTING *1 | +2, -1% of rated output voltage | | | | |
| PROTECTION CIRCUIT AND OTHERS | OVERCURRENT PROTECTION | Works over 103% of rating | | | | |
| | OVERVOLTAGE PROTECTION | Works at 115 - 145% of rating | | | | |
| | LOWVOLTAGE PROTECTION | Works at 95% max of rating | | | | |
| | REMOTE ON/OFF | Provided(RC open : ON, short between RC and +Vin : OFF) | | | | |
| ISOLATION | INPUT-OUTPUT | DC1,500V 1minute, DC500V 50MΩ min (20±15℃) | | | | |
| ENVIRONMENT | OPERATING TEMP.,HUMID.AND ALTITUDE | -40 to +85℃, 20 - 95%RH (Non condensing), 3,000m (10,000feet) max | | | | |
| | STORAGE TEMP.,HUMID.AND ALTITUDE | -40 to +100℃, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max (SMD:Refer to the Instruction Manual) | | | | |
| | VIBRATION | 10 - 55Hz, 49.0m/s ² (5G), 3minutes period, 60minutes each along X, Y and Z axis | | | | |
| | IMPACT | 196.1m/s ² (20G), 11ms, once each X, Y and Z axis | | | | |
| SAFETY | AGENCY APPROVALS | UL60950-1, C-UL(CSA60950-1), EN60950-1 | | | | |
| OTHERS | CASE SIZE/WEIGHT | 38.7×5.0×27.2mm [1.52×0.197×1.07 inches] (W×H×D) /12g max | | | | |
| | COOLING METHOD | Convection/Forced air | | | | |

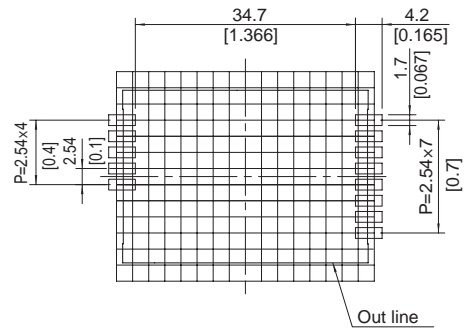
*1 At rated input(DC48V), rated load and 25℃

External view

1.SMD(Type:B)

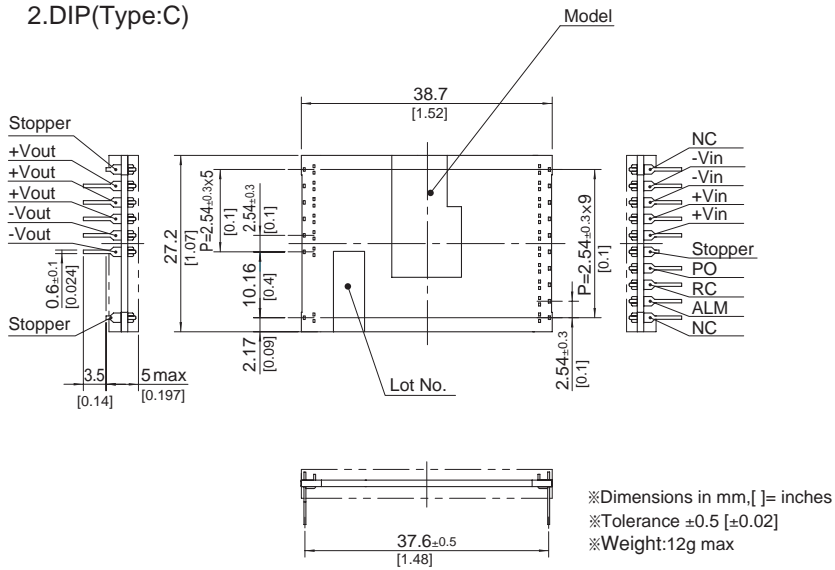


Recommended size for processing PCB (TOP VIEW)

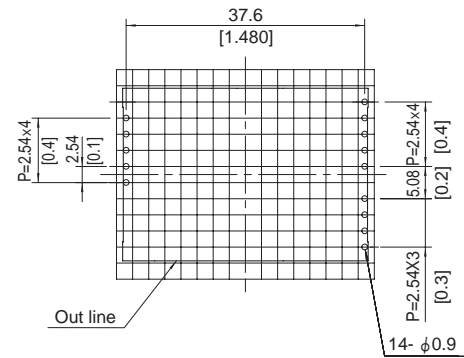


※Dimensions in: $\frac{mm}{[inch]}$
 ※Div.: 0.1inch

2.DIP(Type:C)



Recommended size for processing PCB (TOP VIEW)

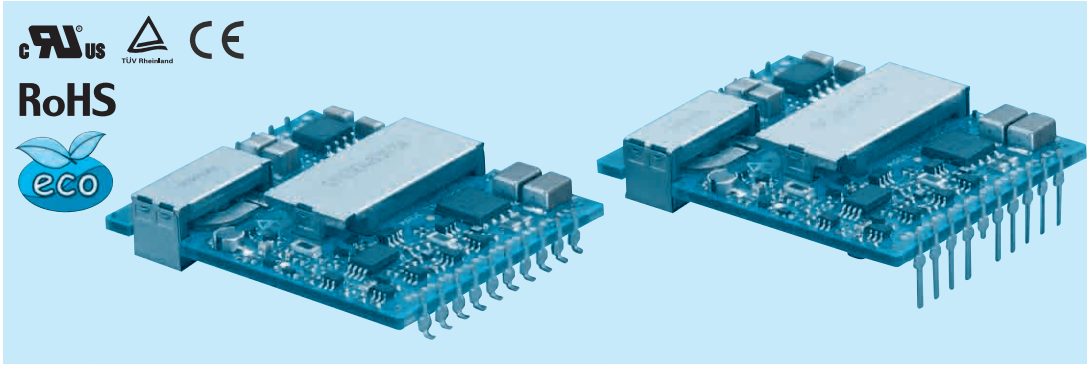


※Dimensions in: $\frac{mm}{[inch]}$
 ※Div.: 0.1inch

SFS30

SF S 30 48 3R3 B

① ② ③ ④ ⑤ ⑥



- ① Series name
- ② Single output
- ③ Output wattage
- ④ Input voltage
24:DC18 - 36V
48:DC36 - 76V
- ⑤ Output voltage
- ⑥ Mounting type
(Soldering process)
B :SMD(Pb-free solder)
C :DIP(Pb-free solder)

| MODEL | SFS30241R2 | SFS30241R5 | SFS30241R8 | SFS30242R5 | SFS30243R3 | SFS302405 | SFS302412 | SFS302415 |
|-----------------------|------------|------------|------------|------------|------------|-----------|-----------|-----------|
| MAX OUTPUT WATTAGE[W] | 12.48 | 15.6 | 16.2 | 22.5 | 29.7 | 30.0 | 30.0 | 30.0 |
| DC OUTPUT | 1.2V 10.4A | 1.5V 10.4A | 1.8V 9A | 2.5V 9A | 3.3V 9A | 5V 6A | 12V 2.5A | 15V 2A |

SFS/SPCS

SPECIFICATIONS

| | MODEL | SFS30241R2 | SFS30241R5 | SFS30241R8 | SFS30242R5 | SFS30243R3 | SFS302405 | SFS302412 | SFS302415 | |
|-------------------------------|---|--|------------|------------|------------|------------|-----------|-----------|-----------|--|
| INPUT | VOLTAGE[V] | DC18 - 36 | | | | | | | | |
| | CURRENT[A] | *1 0.60typ | 0.74typ | 0.76typ | 1.04typ | 1.36typ | 1.36typ | 1.36typ | 1.39typ | |
| | EFFICIENCY[%] | *1 86.5typ | 87.5typ | 89typ | 90typ | 91typ | 92typ | 92typ | 90typ | |
| | START-UP VOLTAGE[V] | DC16 - 18 | | | | | | | | |
| | HYSTERESIS VOLTAGE[V] | DC1 min | | | | | | | | |
| OUTPUT | VOLTAGE[V] | 1.2 | 1.5 | 1.8 | 2.5 | 3.3 | 5 | 12 | 15 | |
| | CURRENT[A] | 10.4 | 10.4 | 9 | 9 | 9 | 6 | 2.5 | 2 | |
| | VOLTAGE ACCURACY[%] | +5, -3 | | | | | | | | |
| | RIPPLE[mVp-p] | 25max | | | | | | 120max | | |
| | RIPPLE NOISE[mVp-p] | 50max | | | | | | 150max | | |
| | START-UP TIME[ms] | 20 - 200max (DCIN 24V, I _o =100%) | | | | | | | | |
| PROTECTION CIRCUIT AND OTHERS | OUTPUT VOLTAGE SETTING *1 | ±1% of rated output voltage | | | | | | | | |
| | OVERCURRENT PROTECTION | Works over 103% of rating | | | | | | | | |
| | OVERVOLTAGE PROTECTION | Works at 120 - 140% of rating | | | | | | | | |
| | LOWVOLTAGE PROTECTION | Works at 90% max of rating | | | | | | | | |
| REMOTE ON/OFF | Provided(RC open : ON, short between RC and +Vin : OFF) | | | | | | | | | |

| MODEL | SFS30481R2 | SFS30481R5 | SFS30481R8 | SFS304802 | SFS30482R5 | SFS30483R3 | SFS304805 | SFS304810 | SFS304812 | SFS304815 |
|-----------------------|------------|------------|------------|-----------|------------|------------|-----------|-----------|-----------|-----------|
| MAX OUTPUT WATTAGE[W] | 12.48 | 15.6 | 16.2 | 18.0 | 22.5 | 29.7 | 30.0 | 30.0 | 30.0 | 30.0 |
| DC OUTPUT | 1.2V 10.4A | 1.5V 10.4A | 1.8V 9A | 2V 9A | 2.5V 9A | 3.3V 9A | 5V 6A | 10V 3A | 12V 2.5A | 15V 2A |

SPECIFICATIONS

| | MODEL | SFS30481R2 | SFS30481R5 | SFS30481R8 | SFS304802 | SFS30482R5 | SFS30483R3 | SFS304805 | SFS304810 | SFS304812 | SFS304815 | |
|-------------------------------|---|--|------------|------------|-----------|------------|------------|-----------|-----------|-----------|-----------|--|
| INPUT | VOLTAGE[V] | DC36 - 76 | | | | | | | | | | |
| | CURRENT[A] | *1 0.30typ | 0.37typ | 0.38typ | 0.42typ | 0.52typ | 0.67typ | 0.68typ | 0.69typ | 0.68typ | 0.68typ | |
| | EFFICIENCY[%] | *1 86typ | 87.5typ | 89typ | 89typ | 91typ | 92typ | 92.5typ | 91typ | 92typ | 92typ | |
| | START-UP VOLTAGE[V] | DC32 - 36 | | | | | | | | | | |
| | HYSTERESIS VOLTAGE[V] | DC2 min | | | | | | | | | | |
| OUTPUT | VOLTAGE[V] | 1.2 | 1.5 | 1.8 | 2 | 2.5 | 3.3 | 5 | 10 | 12 | 15 | |
| | CURRENT[A] | 10.4 | 10.4 | 9 | 9 | 9 | 9 | 6 | 3 | 2.5 | 2 | |
| | VOLTAGE ACCURACY[%] | +5, -3 | | | | | | | | | | |
| | RIPPLE[mVp-p] | 25max | | | | | | 120max | | | | |
| | RIPPLE NOISE[mVp-p] | 50max | | | | | | 150max | | | | |
| | START-UP TIME[ms] | 20 - 200max (DCIN 48V, I _o =100%) | | | | | | | | | | |
| PROTECTION CIRCUIT AND OTHERS | OUTPUT VOLTAGE SETTING *1 | ±1% of rated output voltage | | | | | | | | | | |
| | OVERCURRENT PROTECTION | Works over 103% of rating | | | | | | | | | | |
| | OVERVOLTAGE PROTECTION | Works at 120 - 140% of rating | | | | | | | | | | |
| | LOWVOLTAGE PROTECTION | Works at 90% max of rating | | | | | | | | | | |
| REMOTE ON/OFF | Provided(RC open : ON, short between RC and +Vin : OFF) | | | | | | | | | | | |

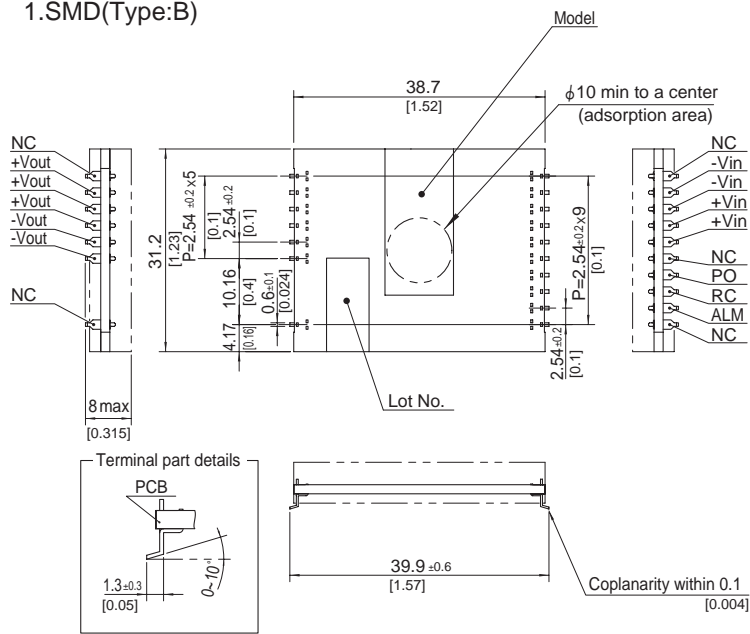
GENERAL SPECIFICATIONS

| | | |
|-------------|------------------------------------|---|
| ISOLATION | INPUT-OUTPUT | DC1,500V 1minute, DC500V 50MΩ min (20±15°C) |
| ENVIRONMENT | OPERATING TEMP.,HUMID.AND ALTITUDE | -40 to +85°C, 20 - 95%RH (Non condensing), 3,000m (10,000feet) max |
| | STORAGE TEMP.,HUMID.AND ALTITUDE | -40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max (SMD:Refer to the Instruction Manual) |
| | VIBRATION | 10 - 55Hz, 49.0m/s ² (5G), 3minutes period, 60minutes each along X, Y and Z axis |
| | IMPACT | 196.1m/s ² (20G), 11ms, once each X, Y and Z axis |
| SAFETY | AGENCY APPROVALS | UL60950-1, C-UL (CSA60950-1), EN60950-1 |
| OTHERS | CASE SIZE/WEIGHT | 38.7 X 8.0 X 31.2mm [1.52 X 0.315 X 1.23 inches] (W X H X D) /20g max |
| | COOLING METHOD | Convection/Forced air |

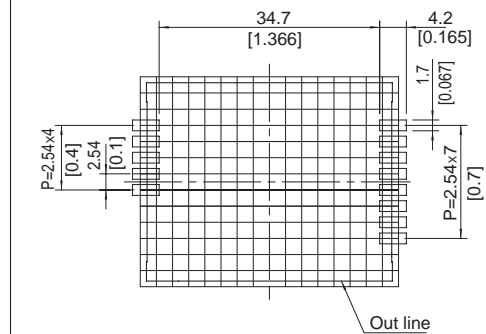
*1 At rated input(DC24V, DC48V), rated load and 25°C

External view

1.SMD(Type:B)



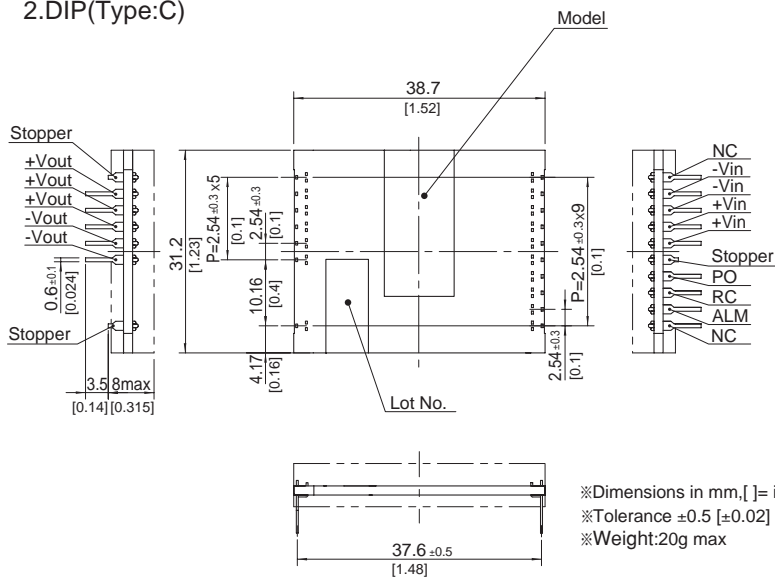
Recommended size for processing PCB (TOP VIEW)



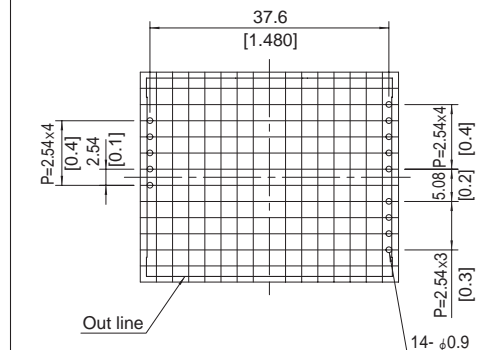
※Dimensions in: mm [inch]

※Div.: 0.1inch

2.DIP(Type:C)



Recommended size for processing PCB (TOP VIEW)



※Dimensions in: mm [inch]

※Div.: 0.1inch

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