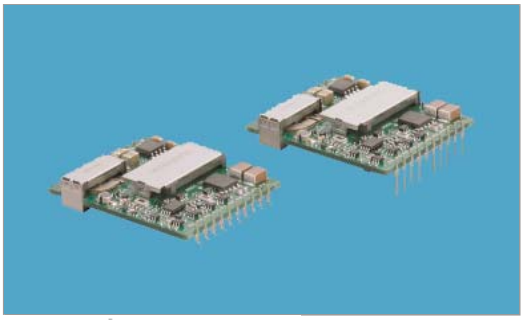
SFS30



Features

- High reliability : not built-in aluminum and tantalum electrolytic capacitor
- Built-in Remote ON/OFF
- Parallel operation
- SMD mounting type and through-hole mounting type
- High efficiency (synchronous rectifier circuit)
- Alarm
- Built-in Over Current Protection
- Built-in Over Voltage Protection
- Built-in Low Voltage Protection
- RoHS Compliant

Safety Agency Approvals

UL60950-1, C-UL, EN60950-1

CE Markings

Low Voltage Directive

5 year warranty(refer to Instruction Manual)

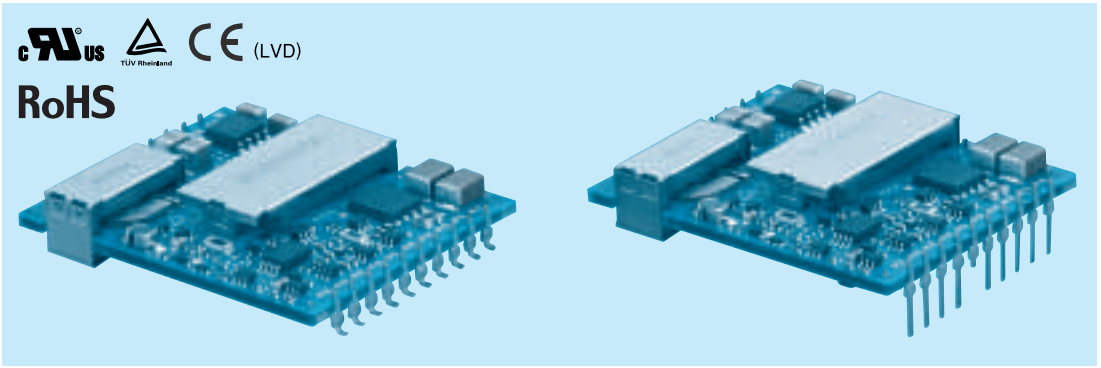
Model	Input Voltage [V]	Output Wattage [W]	DC Output [V/A]
SFS30241R2	DC 18 - 36	12.48	1.2V 10.4A
SFS30241R5	DC 18 - 36	15.6	1.5V 10.4A
SFS30241R8	DC 18 - 36	16.2	1.8V 9A
SFS30242R5	DC 18 - 36	22.5	2.5V 9A
SFS30243R3	DC 18 - 36	29.7	3.3V 9A
SFS302405	DC 18 - 36	30	5V 6A
SFS302412	DC 18 - 36	30	12V 2.5A
SFS302415	DC 18 - 36	30	15V 2A
SFS30481R2	DC 36 - 76	12.48	1.2V 10.4A
SFS30481R5	DC 36 - 76	15.6	1.5V 10.4A
SFS30481R8	DC 36 - 76	16.2	1.8V 9A
SFS304802	DC 36 - 76	18	2V 9A
SFS30482R5	DC 36 - 76	22.5	2.5V 9A
SFS30483R3	DC 36 - 76	29.7	3.3V 9A
SFS304805	DC 36 - 76	30	5V 6A
SFS304810	DC 36 - 76	30	10V 3A
SFS304812	DC 36 - 76	30	12V 2.5A
SFS304815	DC 36 - 76	30	15V 2A

COSEL **On-board type**

SFS30

Ordering information

SF	S	30	48	3R3	B
①	②	③	④	⑤	⑥



①Series name
②Single output
③Output wattage
④Input voltage
24:DC18 - 36V
48:DC36 - 76V
⑤Output voltage
⑥Mounting 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

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, 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)							

SFS

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, 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)									

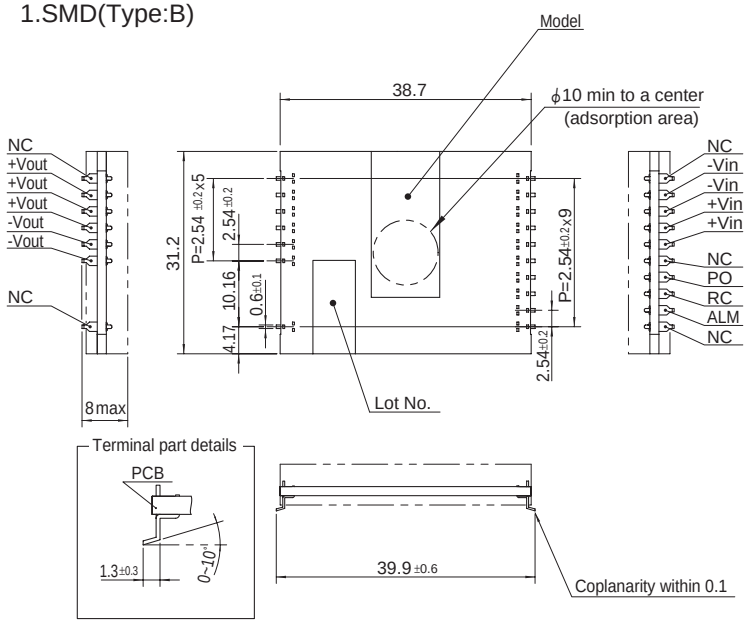
GENERAL SPECIFICATIONS

ISOLATION	INPUT-OUTPUT	DC1,500V 1minute, DC500V 50MΩ min (20±15℃)
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
	VIBRATION	10 - 55Hz, 49.0m/s² (5G), 3minutes period, 60minutes each along X, Y and Z axis
	IMPACT	196.1m/s² (20G), 11ms, once each X, Y and Z axis
SAFETY	AGENCY APPROVALS	UL60950-1, C-UL (CSA60950-1), EN60950-1
OTHERS	CASE SIZE/WEIGHT	38.7×8.0×31.2mm (W×H×D) /20g max
	COOLING METHOD	Convection/Forced air

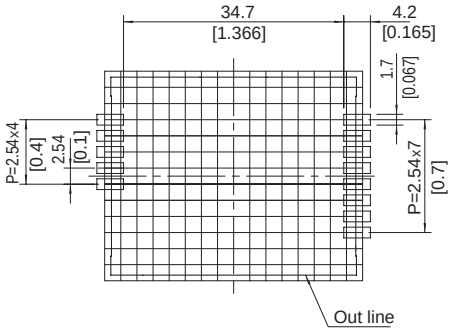
*1 At rated input(DC24V, DC48V), rated load and 25℃

External view

1.SMD(Type:B)



Recommended size for processing PCB
(TOP VIEW)

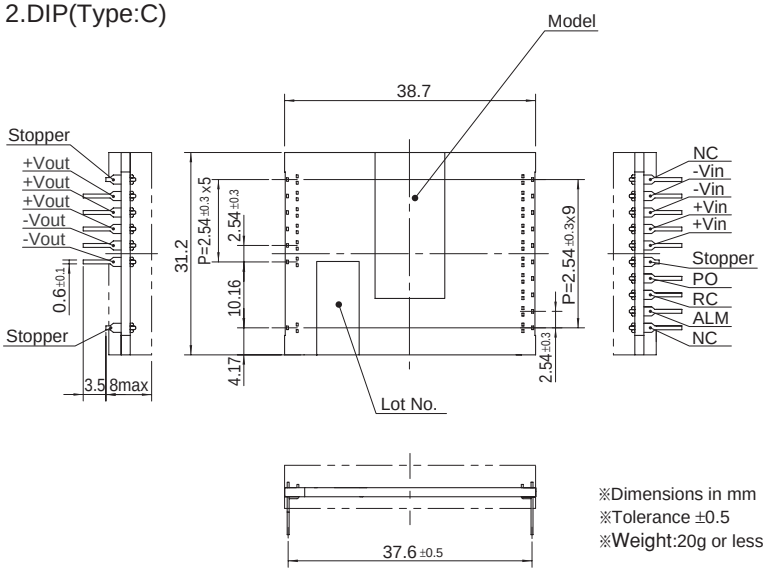


※Dimensions in: mm [inch]

※Div.: 0.1inch

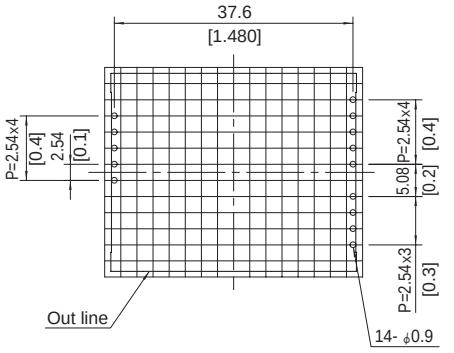
SFS

2.DIP(Type:C)



※Dimensions in mm
※Tolerance ±0.5
※Weight:20g or less

Recommended size for processing PCB
(TOP VIEW)



※Dimensions in: mm [inch]

※Div.: 0.1inch