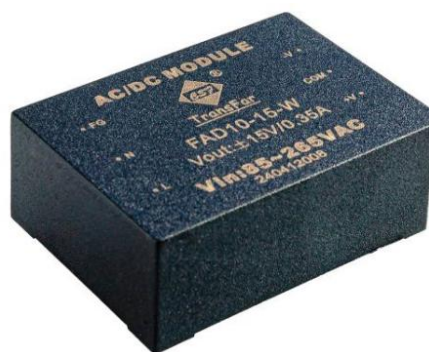


## FAD2.5~30W Dual road common ground series

### Typical performance

- Dual output mode
- Total output power 2.5~30W
- Output voltage  $\pm 3.3 \sim \pm 48V$
- Input voltage range 165~265VAC/85~265VAC
- High isolation voltage 2500VAC(3000VAC or 4000VAC according to customer requirements)
- Horizontal mounting
- Switching frequency 60kHz



### Input characteristic

Input voltage range	85~265VAC	100~360VDC
	165~265VAC	200~360VDC

### Output characteristic

Output voltage accuracy	Nominal output voltage $\pm 2\%$
Load effect	10%~100% Load Change time $\Delta$ $V_{outnom} \leq \pm 0.5\%$
Source effect	$V_{inmin} \sim V_{inmax}$ Change time $\Delta$ $V_{outnom} \leq \pm 0.2\%$
Ripple noise	$\leq 1\%$ $V_{outnom}$ (max)
Conversion efficiency	See product selection table
Temperature coefficient	$\leq \pm 0.02\%/^{\circ}C$ (Maximum value)

### General characteristic

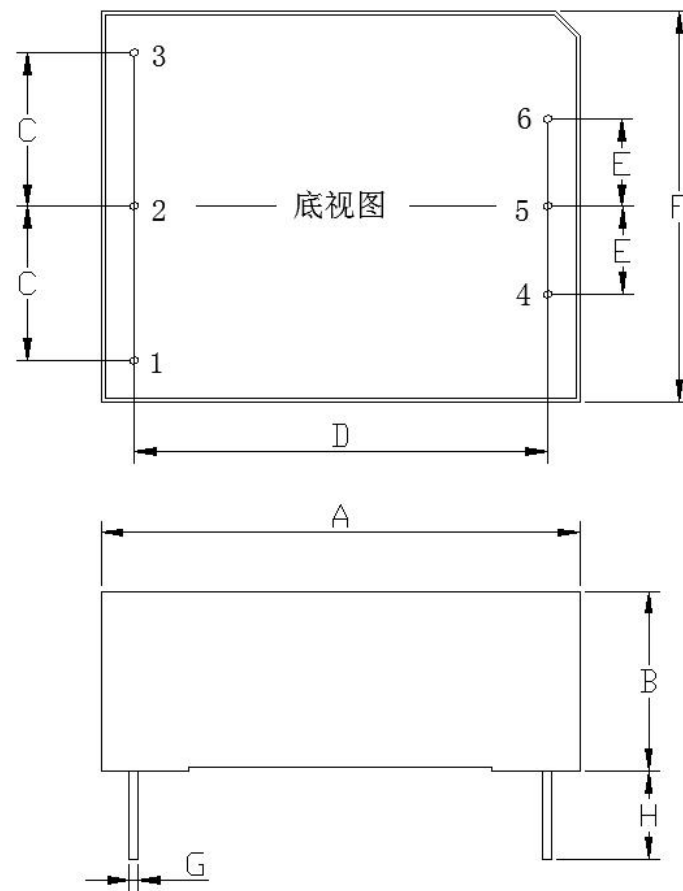
Isolation voltage	Between $V_{in}$ and $V_{out}$ 2500VAC/min(3000VAC or 4000VAC can be achieved according to customer requirements)
Insulation resistance	$\geq 100M\Omega$
Mean time between failures	$\geq 5 \times 10^5$ h
Protection function	Short-circuit protection (self-recovery), overheat protection (self-recovery)
Operating temperature	$-25 \sim +55^{\circ}C$ full load / $+55 \sim +85^{\circ}C$ derated use ( $-40 \sim +60^{\circ}C$ can be achieved according to customer requirements)
Storage temperature	$-55 \sim +125^{\circ}C$
Relative humidity	10RH~90RH
Cooling mode	Natural cooling



## ■ Selection list

Model number	Input voltage range Vac/Vdc	Output voltage/current (V) / (A)	Maximum capacitive load ( $\mu$ F)	Typical efficiency (%)
FAD10-5-N	165V-265V/200V-360V	$\pm$ 5/1.00		75
FAD10-12-N	165V-265V/200V-360V	$\pm$ 12/0.45		80
FAD10-15-N	165V-265V/200V-360V	$\pm$ 15/0.35		80
FAD10-24-N	165V-265V/200V-360V	$\pm$ 24/0.22		80
FAD15-5-N	165V-265V/200V-360V	$\pm$ 5/1.50		75
FAD15-12-N	165V-265V/200V-360V	$\pm$ 12/0.65		80
FAD15-15-N	165V-265V/200V-360V	$\pm$ 15/0.50		80
FAD15-24-N	165V-265V/200V-360V	$\pm$ 24/0.32		80
FAD20-5-N	165V-265V/200V-360V	$\pm$ 5/2.00		75
FAD20-12-N	165V-265V/200V-360V	$\pm$ 12/0.83		80
FAD20-15-N	165V-265V/200V-360V	$\pm$ 15/0.65		80
FAD20-24-N	165V-265V/200V-360V	$\pm$ 24/0.45		80
FAD30-5-N	165V-265V/200V-360V	$\pm$ 5/3.00		75
FAD30-12-N	165V-265V/200V-360V	$\pm$ 12/1.25		80
FAD30-15-N	165V-265V/200V-360V	$\pm$ 15/1.00		80
FAD30-24-N	165V-265V/200V-360V	$\pm$ 24/0.65		80
FAD2.5-5-W	85V-265V/100V-360V	$\pm$ 5/0.25		75
FAD2.5-12-W	85V-265V/100V-360V	$\pm$ 12/0.11		80
FAD2.5-15-W	85V-265V/100V-360V	$\pm$ 15/0.08		80
FAD2.5-24-W	85V-265V/100V-360V	$\pm$ 24/0.06		80
FAD5-5-W	85V-265V/100V-360V	$\pm$ 5/0.50		75
FAD5-12-W	85V-265V/100V-360V	$\pm$ 12/0.22		80
FAD5-15-W	85V-265V/100V-360V	$\pm$ 15/0.18		80
FAD5-24-W	85V-265V/100V-360V	$\pm$ 24/0.11		80
FAD10-5-W	85V-265V/100V-360V	$\pm$ 5/1.00		75
FAD10-12-W	85V-265V/100V-360V	$\pm$ 12/0.45		80
FAD10-15-W	85V-265V/100V-360V	$\pm$ 15/0.35		80
FAD10-24-W	85V-265V/100V-360V	$\pm$ 24/0.22		80
FAD15-5-W	85V-265V/100V-360V	$\pm$ 5/1.50		75
FAD15-12-W	85V-265V/100V-360V	$\pm$ 12/0.65		80
FAD15-15-W	85V-265V/100V-360V	$\pm$ 15/0.50		80
FAD15-24-W	85V-265V/100V-360V	$\pm$ 24/0.32		80
FAD20-5-W	85V-265V/100V-360V	$\pm$ 5/2.00		75
FAD20-12-W	85V-265V/100V-360V	$\pm$ 12/0.83		80
FAD20-15-W	85V-265V/100V-360V	$\pm$ 15/0.65		80
FAD20-24-W	85V-265V/100V-360V	$\pm$ 24/0.45		80

### Product diagram



unit: mm

### Dimensions and shell material

Shell material	Plastic case				Aluminium case
	2.5W(mm)	5W(mm)	10/15W(mm)	20W(mm)	30W(mm)
Dim					
A	48.5±0.5	55±0.5	62±0.5	70±0.5	71.5±0.5
B	20.5±0.5	21.5±0.5	22.5±0.5	23.5±0.5	23.5±0.5
C	12±0.3	17.5±0.3	17.5±0.3	20.5±0.3	20.5±0.3
D	40.5±0.5	47±0.5	54±0.5	62±0.5	62±0.5
E	16±0.3	20±0.3	20±0.3	23±0.3	23±0.3
F	36±0.5	45±0.5	45±0.5	48±0.5	49.5±0.5
G*	1.2±0.1				
H	10Min			8Min	

### Pin definition

Definition	1	2	3	4	5	6
Instructions	FG	N	L	-V	COM	+V



\*: The metal encapsulated power module is  $1.0\pm 0.1$