

## Features

- C type input filter
- High conversion efficiency
- Design for high reliability, long lifetime
- Excellent current limiting protection, can continually operate in short circuit state
- Fast dynamic response
- Pin function compatible
- Small form factor, single output
- Natural cooling, no heat sink needed



## Input Characteristic

Voltage Range	5 VDC	4.5-9 VDC
	12 VDC	9-18 VDC
	24 VDC	18-36 VDC
	48 VDC	36-72 VDC
Reverse Protection	Connect Fuse Outside	

## Output Characteristic

Voltage Set-point Accuracy	± 1%
Line Regulation<main>	± 0.2%
Load Regulation<main>	± 0.4%
Cross Regulation (main 30%-100% load, sub 80% load)	± 3%
Temperature Coefficient	± 0.01%/°C
Output Current Limiting	120%(Typ)
Dynamic Response	400μs
Output Current	0.1-6A
Output Voltage	1.8-48V
Power	5-12W

Note: Cross regulation is only refer to Multi-output.

## General Characteristic

Switching Frequency	160 - 200	KHz
Isolation Resistance	200	M Ω
MTBF	>500000	h
Isolation Voltage		
Input-Output	>1500	VDC
Input-Case	>1050	VDC
Output-Case	>500	VDC
Main-Aux	>500	VDC

## Environmental Characteristics

Case Temperature	(Industry) -25 - +85 °C
	(Military I) -40 - +85 °C
	(Military II) -55 - +85 °C
Storage Temperature	(Industry) -45 - +105 °C
	(Military) -55 - +105 °C

## Heat Characteristic

Cooling	Thermal Resistance
Breeze of Nature	12.45°C/W
0.5M/S	10.37°C/W
1M/S	7.73°C/W
1.5M/S	5.63°C/W
2M/S	4.66°C/W

# CD/MZD Series

5-12W

DC/DC

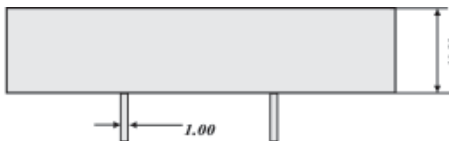
## Models

Input voltage (Vdc)	Input Range	Output voltage (Vdc)	Output current (A)	Ripple and noise pk-pk(mv)	Efficiency Typical	Models
5	4.5-9	5	1	50	76%	CD5-05S05
5	4.5-9	12	0.83	120	81%	CD10-05S12
12	9-18	3.3	2	50	80%	CD6.6-12S3.3
12	9-18	5.0	2.4	50	82%	CD12-12S05
24	18-36	1.8	1	50	68%	CD1.8-24S1.8
24	18-36	2.5	1	50	75%	CD5-24S2.5
24	18-36	5	2	50	80%	MZD10-24S05
48	36-72	1.8	1	50	70%	CD1.8-48S1.8
48	36-72	2.5	1	50	74%	CD10-48S2.5
48	36-72	5	2	50	80%	MZD10-48S05
5	4.5-9	± 05	± 0.5	50	78%	CD05-05D05
5	4.5-9	± 15	± 0.17	150	77%	CD05-05D15
12	9-18	± 5	± 0.6	50	74%	CD06-12D05
12	9-18	± 12	± 0.25	120	76%	CD06-12D12
24	18-36	± 15	± 0.2	150	76%	CD06-24D15
24	18-36	± 3.3	± 0.5	50	73%	CD3.3-24D3.3
24	18-36	± 5	± 1	50	75%	CD10-24D05
48	36-72	± 24	± 0.25	200	76%	CD12-48D24
48	36-72	± 05	± 1	50	75%	CD10-48D05
48	36-72	± 12	± 0.42	120	78%	CD10-48D12
48	36-72	± 15	± 0.33	150	80%	CD10-48D15

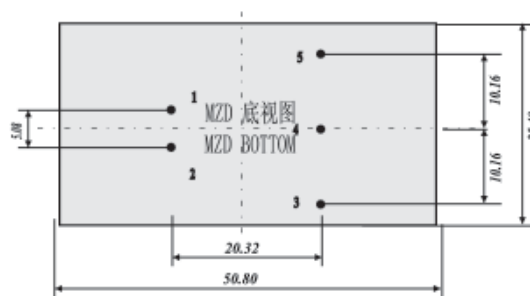
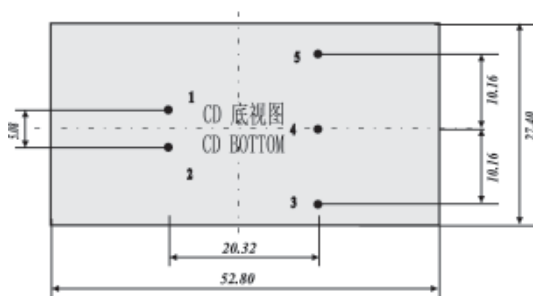
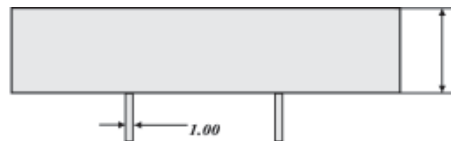
Only typical models listed. If you need other model, please contact us for costum models

## Mechanical drawing and pin definition

CD series



MZD series



单位 (Unit) :mm

引脚 (PIN)	单路 SING	双路 DOU
1	+Vin	+Vin
2	-Vin	-Vin
3	-Vo	-Vo
4	NC	GND
5	+Vo	+Vo