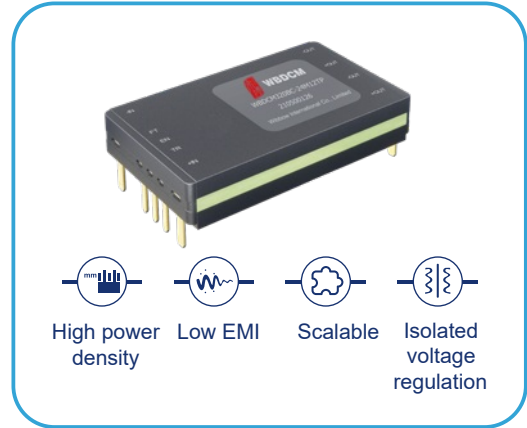




WBDCM24BC Series Microchip DC-DC Converter

Product Features

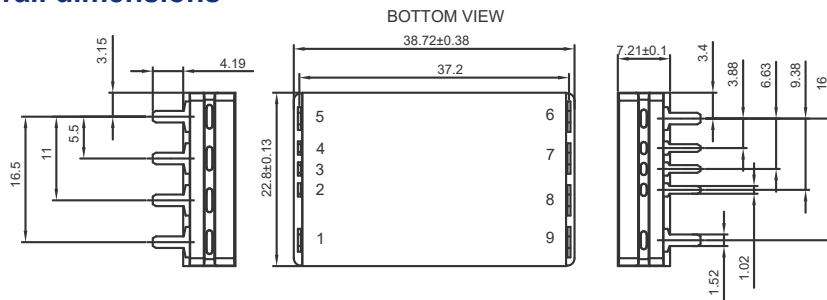
- Isolated voltage regulation
- High volume power density: 818 W/in³
- High weight power density: 13.2 W/g
- Weight: 24.2 g only
- Over-voltage, under-voltage, over-current, short circuit, and overtemperature protection
- Support expansion by parallel connection of up to 8 units
- 2250 Vdc dielectric strength
- Operating temperature: -55°C~ 100°C
- CHIP3623 package: 38.72 × 22.80 × 7.21 mm
- Conform to SJ 20668 General Specification for Microcircuit Modules



Product specification

Specification and model	Input voltage	Output voltage	Adjustment range	Output current	Output power	Efficiency	Development progress
WBDCM120BC-24M3V3TP	18~36V	3.3V	2.97~3.63V	36.3A	120W	88.4%	Available for delivery
WBDCM180BC-24M05TP	18~36V	5V	4.0~5.5V	36A	180W	91.9%	Available for delivery
WBDCM320BC-24M12TP	18~36V	12V	7.2~13.2V	26.7A	320W	92.2%	Available for delivery
WBDCM320BC-24M15TP	18~36V	15V	9.0~16.5V	21.3A	320W	92.3%	Available for delivery
WBDCM320BC-24M24TP	18~36V	24V	14.4~26.4V	13.3A	320W	91.5%	Available for delivery
WBDCM320BC-24M28TP	18~36V	28V	16.8~30.8V	11.4A	320W	93.1%	Available for delivery
WBDCM320BC-24M36TP	18~36V	36V	21.6~39.6V	8.8A	320W	93.0%	Available for delivery
WBDCM320BC-24M48TP	18~36V	48V	28.8~52.8V	6.7A	320W	92.0%	Available for delivery

Overall dimensions



Pin No.	Symbol	Function
1	+IN	Input positive terminal
2	TR	Output voltage regulation
3	EN	Enable terminal
4	FT	Fault indication terminal
5	-IN	Input negative terminal
6	-OUT	Output negative terminal
7	+OUT	Output positive terminal
8	-OUT	Output negative terminal
9	+OUT	Output positive terminal

Naming rule

WB	DCM	120	BC	24	M	3V3	T	P
Brand name	Series name	Output power	Package code	Input voltage	Temperature grade	Output voltage	Through hole type	Parallel function
Wibbow	Isolated voltage regulation Microchip series	120: 120W 180: 180W 320: 320W	BC: CHIP3623	24: 18-36V	M: T _c : -55~100°C T _s : -65~100°C H: T _c : -40~100°C T _s : -55~100°C T: T _c : -40~100°C T _s : -40~100°C	3V3: 3.3V 05: 5V 12: 12V 15: 15V 24: 24V 28: 28V 36: 36V 48: 48V	Through hole	P: Support parallel connection S: Standalone operation