WBVTM48F Series Microchip DC-DC Converter

Product Features

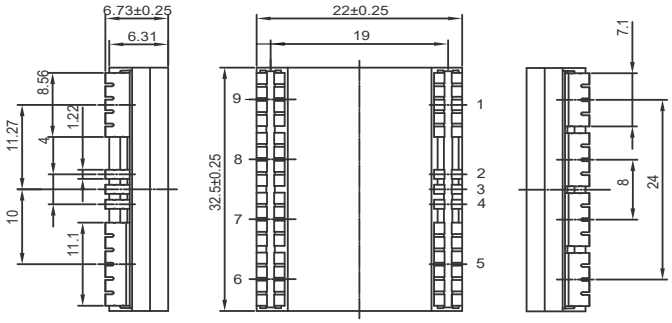
- Isolated fixed voltage ratio
- High volume power density: 1114 W/in^3
- High weight power density: 22 W/g
- Weight: 16 g only
- Over-voltage, under-voltage, over-current, short circuit, and overtemperature protection
- Support expansion by parallel connection of up to 8 units
- Cascade JPRM composition fractional architecture
- Operating temperature: -55℃~ 100℃
- FULL CHIP package: 32.5× 22.0 × 6.73 mm
- Conform to SJ 20668 General Specification for Microcircuit Modules

Fixed transformation ratio | Low EMI | Scalable | Fractional architecture

Product specification

Specification and model	Input voltage	Output voltage	Voltage transformation ratio	Output current	Output power	Efficiency	Development progress
WBVTM50AF-48M04L	26～55V	4V	12：1	50A	200W	94.0%	Developing
WBVTM40AF-48M06L	26～55V	6V	8：1	40A	240W	94.6%	Available for delivery
WBVTM30AF-48M08L	26～55V	8V	6：1	30A	240W	95.4%	Available for delivery
WBVTM25AF-48M9V6L	26～55V	9.6V	5：1	25A	240W	95.8%	Developing
WBVTM25AF-48M12L	26～55V	12V	4：1	25A	300W	95.8%	Available for delivery
WBVTM15AF-48M16L	26～55V	16V	3：1	15A	240W	95.0%	Available for delivery
WBVTM12A5F-48M24L	26～55V	24V	2：1	12.5A	300W	95.5%	Developing
WBVTM09A5F-48M32L	26～55V	32V	3：2	9.5A	300W	96.2%	Developing

Overall dimensions



Pin No.	Symbol	Function
1	+IN	Input positive terminal
2	TM	Temperature detection
3	VC	Module control
4	PC	Primary side control
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	VTM	50A	F	48	M	04	L
Brand name	Series name	Output current	Package code	Input voltage	Temperature grade	Output voltage	Through hole type
Wibbow	Isolated non-stabilized microchip series	50A: 50A 40A: 40A 30A: 30A 25A: 25A 15A: 15A 12A: 12A 09A: 9A	F: FULL CHIP	48: 26~55V	M : T_C : -55~100℃ T_S : -65~100℃ H: T_C : -40~100℃ T_S : -55~100℃ T: T_C : -40~100℃ T_S : -40~100℃	04: 4V 06: 6V 08: 8V 9V6: 9.6V 12: 12V 16: 16V 24: 24V 32: 32V	L: Surface mount T: Through hole