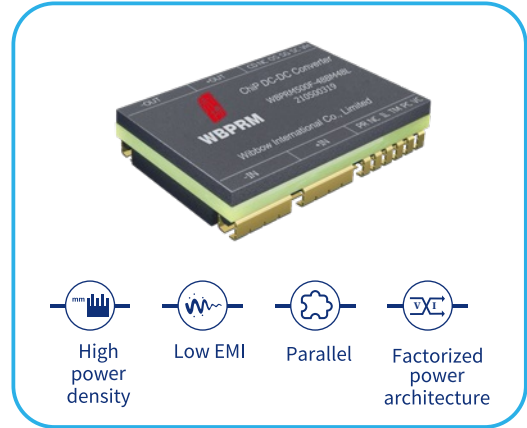


WBPRM48BF Series ChiP DC-DC Converter

Features

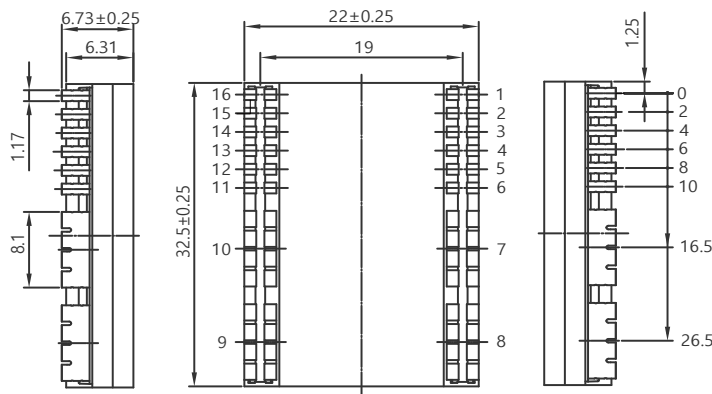
- Adjustable ultra-wide output voltage range
- Maximum volume power density: 2035W/in³
- Maximum weight power density: 37.5 W/g
- Weight: only 16 g
- Over-voltage, under-voltage, over-current, short-circuit and thermal protections
- Supports 5 parallel expansion
- Cascading JVTM factorized power architecture
- Operating temperature: -55°C~100°C
- FULL CHIP package: 32.5 x22.0x6.73 mm
- Comply with the General Specification for Microcircuit Modules (SJ20668)



Product specification

Product series	Input voltage range	Output voltage range	Adjustable range	Output current	Output power	Efficiency	Development progress
WBPRM400F-48BM48L	38~55V	48V	5~55V	8.3A	400W	96.5%	Available
WBPRM500F-48BM48L	38~55V	48V	5~55V	10.4A	500W	97.0%	Available
WBPRM600F-48BM48L	38~55V	48V	5~55V	12.5A	600W	97.0%	Available

Shape & Size



Pin No.	Label	Function	Pin No.	Label	Function
1	PR	Parallel control	9	-OUT	Negative output power terminal
2	PC	Primary side controller	10	+OUT	Positive output power terminal
3	TRIM	Output voltage range setting	11	VC	VTM control
4	NC	NULL	12	RE	Outer ring reference
5	NC	NULL	13	SG	Signal pool
6	AL	Adaptive loop control	14	IF	Current monitoring
7	+IN	Positive input power terminal	15	VS	Auxiliary source
8	-IN	Negative input power terminal	16	VT	VTM temperature compensation

Part Numbering

WB	PRM	400	F	-	48B	M	48	L
Brand Name	Series name	Output	Package Type	-	Input voltage range	Temperature Grade	Output voltage range	Pin Type
Wibbow	Pre-regulated microchip series	400: 400W 500: 500W 600: 600W	F: FULL CHIP	-	48B: 38~55V	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	48: 5~55V	L: Surface Mount Technology (SMT) T: Through hole