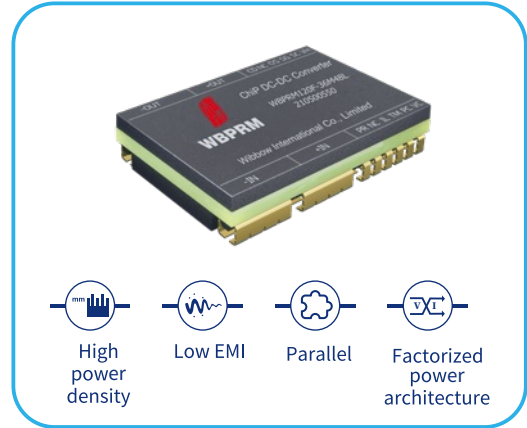




WBPRM36F Series ChiP DC-DC Converter

Features

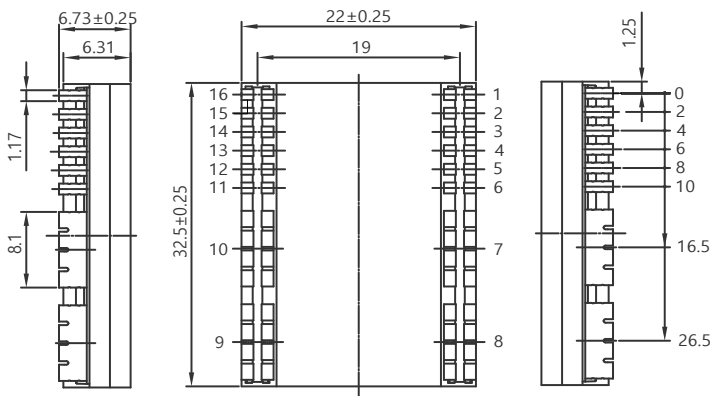
- Wide input and wide output
- Maximum volume power density: 817.3W/in3
- Maximum weight power density: 37.5 W/g
- Weight: only 16 g
- Over-voltage, under-voltage, over-current, short-circuit and thermal protections
- Supports 5 parallel expansion
- Cascading JVTM factorized power architecture
- Operating 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 |
|------------------|---------------------|----------------------|------------------|----------------|--------------|------------|----------------------|
| WBPRM120F-36M48L | 18~60V | 48V | 26V~55V | 2.5A | 120W | 95.0% | Available |
| WBPRM240F-36M48L | 18~60V | 48V | 26V~55V | 5A | 240W | 95.0% | In development |

Shape & Size



| Pin No. | Label | Function | Pin No. | Label | Function |
|---------|-------|-------------------------------|---------|-------|---------------------------------|
| 1 | VC | VTM control | 9 | -OUT | Negative output power terminal |
| 2 | PC | Primary side controller | 10 | +OUT | Positive output power terminal |
| 3 | TM | NULL | 11 | CD | Voltage compensation |
| 4 | IL | Current limiting setting | 12 | NC | NULL |
| 5 | NC | NULL | 13 | OS | Output voltage range setting |
| 6 | PR | Parallel control | 14 | SG | Signal GND |
| 7 | +IN | Positive input power terminal | 15 | SC | Secondary side control terminal |
| 8 | -IN | Negative input power terminal | 16 | VH | Auxiliary source |

Part Numbering

| WB | PRM | 120 | F | - | 36 | 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 | 120: 120W 240: 240W | F: FULL CHIP | - | 36: 18~60V | M: Tc: -55~100°C Ts: -65~100°C H: Tc: -40~100°C Ts: -55~100°C T: Tc: -40~100°C Ts: -40~100°C | 48: 26~55V | L: Surface Mount Technology (SMT) T: Through hole |