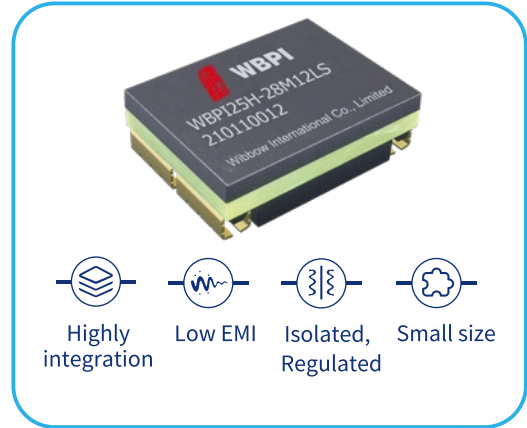




## WBPI28H Series ChiP DC-DC Converter

### Features

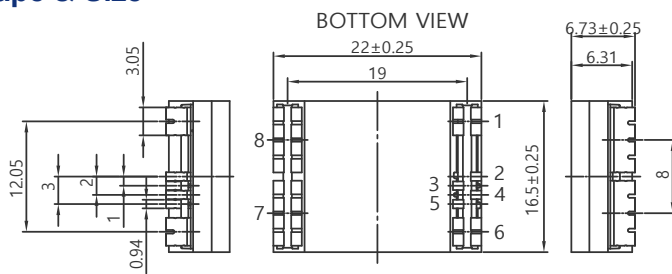
- Isolated, Regulated
- Ultra-small package
- Maximum volume power density: 334W/in3
- Weight: only 7.8 g
- Over-voltage, under-voltage, over-current, short-circuit and thermal protections
- 2250Vdc isolation
- Operating temperature: -55°C~100°C
- HALF CHIP: Package: 16.5 x22.0x6.73 mm
- Comply with 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 |
|------------------|---------------------|----------------------|------------------|----------------|--------------|------------|----------------------|
| WBPI33H-28M3V3LS | 16~50V              | 3.3V                 | 2.97~3.63V       | 10A            | 33W          | 83%        | In development       |
| WBPI50H-28M05LS  | 16~50V              | 5V                   | 4.0~5.5V         | 10A            | 50W          | 85.3%      | Available            |
| WBPI50H-28M12LS  | 16~50V              | 12V                  | 9.6~13.2V        | 4.2A           | 50W          | 88%        | Available            |
| WBPI50H-28M15LS  | 16~50V              | 15V                  | 12~16.5V         | 3.3A           | 50W          | 88%        | In development       |
| WBPI50H-28M18LS  | 16~50V              | 18V                  | 14.4~19.8V       | 2.8A           | 50W          | 88%        | In development       |
| WBPI50H-28M24LS  | 16~50V              | 24V                  | 22.4~30.8V       | 2.1A           | 50W          | 88.5%      | In development       |
| WBPI50H-28M28LS  | 16~50V              | 28V                  | 22.4~30.8V       | 1.8A           | 50W          | 88.5%      | In development       |
| WBPI50H-28M48LS  | 16~50V              | 48V                  | 36~52.8V         | 1.8A           | 50W          | 89%        | In development       |
| WBPI25H-28M05LS  | 16~50V              | 5V                   | 4.0~5.5V         | 5A             | 25W          | 84.5%      | Available            |
| WBPI25H-28M12LS  | 16~50V              | 12V                  | 9.6~13.2V        | 2.1A           | 25W          | 87%        | Available            |

### Shape & Size



| Pin No. | Label  | Function                          |
|---------|--------|-----------------------------------|
| 1       | +IN    | Positive input power terminal     |
| 2       | SGND   | Signal GND                        |
| 3       | TM     | Temperature monitoring terminal   |
| 4       | TRIM   | Voltage regulation terminal       |
| 5       | ENABLE | Enables and disables power supply |
| 6       | -IN    | Negative input power terminal     |
| 7       | -OUT   | Negative output power terminal    |
| 8       | +OUT   | Positive output power terminal    |

### Part Numbering

| WB         | PI                                      | 33                            | H            | - | 28                  | M   | 3V3   | L                                 | S                                     |
|------------|---|-------------------------------|--------------|---|---------------------|---|---|-----------------------------------|---------------------------------------|
| Brand Name | Series name                             | Output                        | Package Type |   | Input voltage range | Temperature Grade   | Output voltage range  | Pin Type                          | Paralleling                           |
| Wibbow     | Isolated and regulated microchip series | 33: 33W<br>50: 50W<br>25: 25W | H: HALF CHIP |   | 28:<br>16~50V       | M: Tc: -55~100°C<br>Ts: -65~100°C<br>H: Tc: -40~100°C<br>Ts: -55~100°C<br>T: Tc: -40~100°C<br>Ts: -40~100°C | 3V3: 3.3V<br>05: 5V<br>12: 12V<br>15: 15V<br>18: 18V<br>24: 24V<br>28: 28V<br>48: 48V | L: Surface Mount Technology (SMT) | P: Parallel<br>S: Operate stand-alone |