

DHV-20W SERIES, 20WATT, 4:1 INPUT RANGE
FEATURES:

- ✓ Wide input range(4:1)
- ✓ Six-side shielded metal case
- ✓ Low ripple and noise
- ✓ Over current and short circuit protection
- ✓ Typical efficiency up to 82%
- ✓ 3 year warranty



| Model | Input voltage (Vdc) | Output voltage (Vdc) | Output current (mA) | Efficiency Typ. |
|--------------|------------------------|-------------------------|------------------------|--------------------|
| DHV20W-2411 | 24(9~36) | 5 | 4000 | 80% |
| DHV20W-2415 | | 9 | 2222 | 78% |
| DHV20W-2412 | | 12 | 1667 | 82% |
| DHV20W-2413 | | 15 | 1333 | 82% |
| DHV20W-2414 | | 24 | 834 | 82% |
| DHV20W-2421* | | ±5 | 2000 | 80% |
| DHV20W-2425* | | ±9 | 1111 | 80% |
| DHV20W-2422* | | ±12 | 833 | 82% |
| DHV20W-2423* | | ±15 | 667 | 82% |
| DHV20W-2424* | | ±24 | 417 | 82% |
| <hr/> | | | | |
| DHV20W-4811 | 48(18~72) | 5 | 4000 | 80% |
| DHV20W-4815 | | 9 | 2222 | 78% |
| DHV20W-4812 | | 12 | 1667 | 82% |
| DHV20W-4813 | | 15 | 1333 | 82% |
| DHV20W-4814 | | 24 | 834 | 82% |
| DHV20W-4821* | | ±5 | 2000 | 80% |
| DHV20W-4825* | | ±9 | 1111 | 80% |
| DHV20W-4822* | | ±12 | 833 | 82% |
| DHV20W-4823* | | ±15 | 667 | 82% |
| DHV20W-4824* | | ±24 | 417 | 82% |

Notes:

1. Other input and output models may available on request;
2. Above models are default to metal case;
3. Add suffix "C" for CTRL pin function.

ELECTRICAL

| | | |
|-------------------------|----------------------------|------------|
| Output voltage accuracy | +Vo | ±2% max. |
| | -Vo | ±3% max. |
| Line regulation | Nominal Load, full voltage | ±0.5% max. |
| Load regulation | 20% ~ 100% rated load | ±1% max. |

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ELECTRICAL

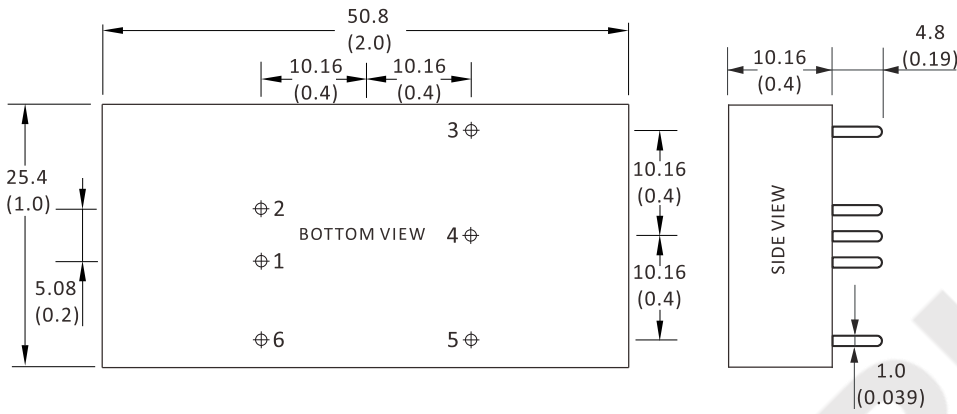
| | | |
|---------------------------------|------------------------|---------------------------------------|
| Ripple and noise | 20MHz BM, full load | 120mVp-p max. |
| Operating frequency | Typical value | 300KHz typ. |
| Isolation voltage (<1mA/min) | Input to output | 1500Vdc |
| Isolation resistance | --- | 1000mΩ |
| Temperature coefficient | --- | ±0.03%/°C max. |
| Operating temperature range | --- | -40°C to +85°C |
| Storage temperature range | --- | -55°C to +125°C |
| Short circuit protection | --- | Continuous, auto-recovery |
| CTRL* | Turn on | Hang or connect high level(3.5-12Vdc) |
| | Turn off | Connect -Vin or low level(0-1.2Vdc) |
| | Shut off input current | 1mA typ. |
| Cooling method | --- | Cooling by air convection |
| Relative humidity | --- | 10%-90% max. |
| Weight | --- | 35g |
| MTBF | Bellcore TR-332, 25°C | 1000KHrs |

Notes: Unless otherwise specified, all the parameters of the test conditions are as follows: ambient temperature 25°C, the nominal input voltage, pure resistive nominal load.

*** The voltage of "CTRL" pin is almost equal to input "-Vin" pin**

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MECHANICAL



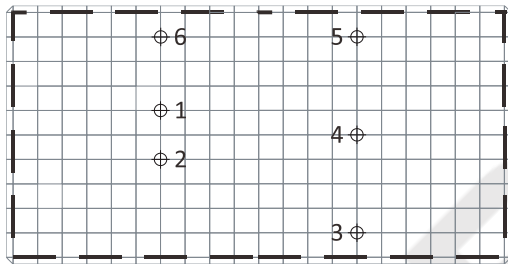
CONNECTION

| PIN # | SINGLE | DUAL |
|-------|--------|--------|
| 1 | GND | GND |
| 2 | +Vin | +Vin |
| 3 | +Vo | +Vo1 |
| 4 | No Pin | 0V |
| 5 | 0V | -Vo2 |
| 6 | No Pin | No Pin |

CONNECTION - "CTRL"

| | | |
|---|--------|------|
| 1 | -Vin | -Vin |
| 2 | +Vin | +Vin |
| 3 | +Vo | +Vo1 |
| 4 | No Pin | 0V |
| 5 | GND | -Vo2 |
| 6 | CTRL | CTRL |

LAYOUT

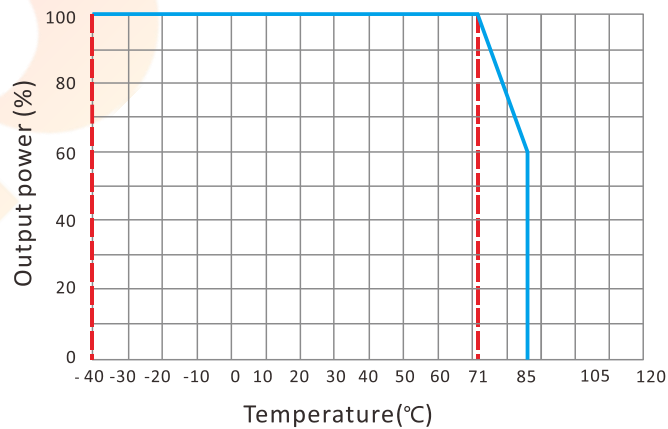


Unit: mm(inch)
 PCB vertical view
 Grid spacing: 2.54mm(0.1 inch)

Note:

* Unit is mm(inch).

ELECTRICAL CURVE

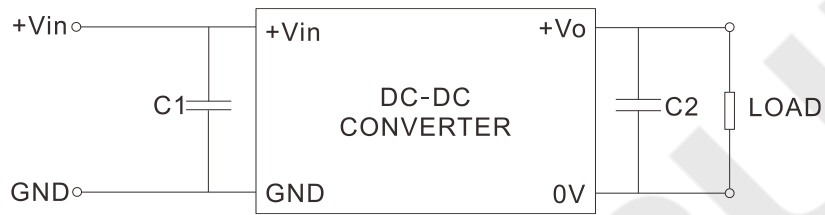


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NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT

SINGLE OUTPUT



DUAL OUTPUT

