

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%
DHV20W-4811		48(18~72)	5	4000
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.
Output voltage adjustable	Special for "Trim" pin	±10% typ.
Line regulation	Nominal Load, full voltage	±0.5% max.

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ELECTRICAL

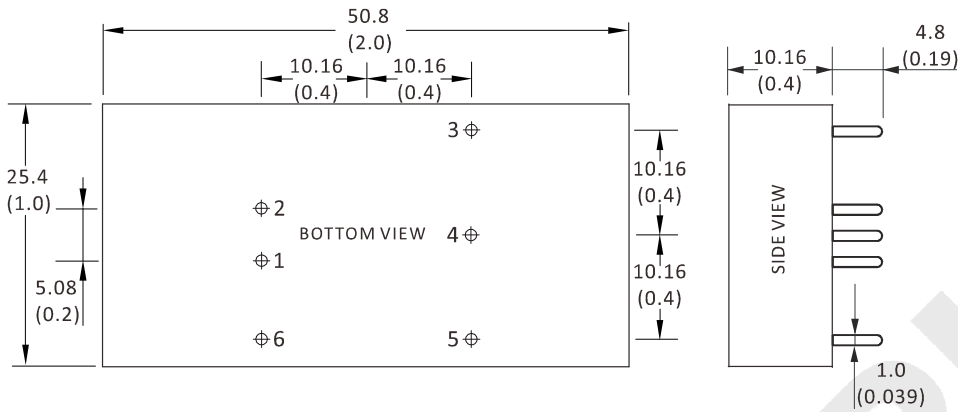
Load regulation	20% ~ 100% rated load	±1% max.
Ripple and noise	20MHz BM, full load	120mVp-p max.
Operating frequency	Typical value	300KHz typ.
Isolation voltage (<1mA/min)	Input to output	1500Vdc
Isolation resistance	---	1000mΩ
Temperature coefficient	---	±0.03%/°C max.
Operating temperature range	---	-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	1000Hrs

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



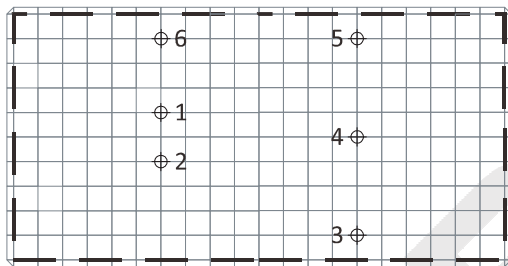
CONNECTION

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	TRIM	0V
5	GND	-Vo2
6	CTRL	CTRL

LAYOUT

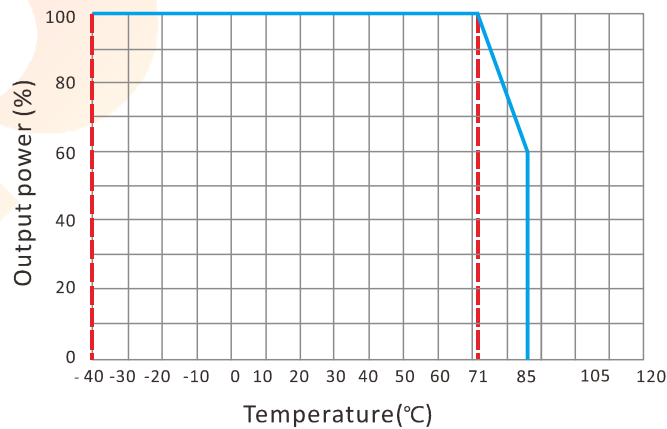


Unit: mm (inch)
 PCB vertical view
 Grid spacing: 2.54mm (0.1 inch)

Note:

* Unit is mm (inch).

ELECTRICAL CURVE

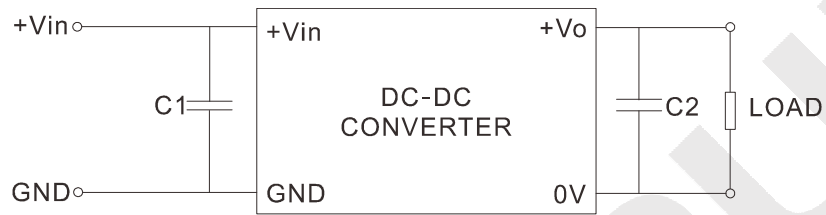


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NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT

SINGLE OUTPUT



DUAL OUTPUT

