

**DBR-1 SERIES, 1WATT, 1KVDC, REGULATED**
**FEATURES:**

- ✓ 3 years warranty
- ✓ 1000Vdc isolation voltage
- ✓ Fully regulated with low ripple and noise
- ✓ Dual and isolated twin output models
- ✓ Operating temperature range -40°C to +85°C
- ✓ Continuous short circuit protection



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DBR1-0521	5(4.75~5.25)	±5	10	100	72%
DBR1-0522		±9	5.5	55	72%
DBR1-0523		±12	4	40	72%
DBR1-0524		±15	3.3	33	72%
DBR1-0525		±24	2.1	21	72%
DBR1-0501		5, 5	10	100	72%
DBR1-0502		9, 9	5.5	55	72%
DBR1-0503		12, 12	4	40	72%
DBR1-0504		15, 15	3.3	33	72%
DBR1-0505		24, 24	2.1	21	72%
DBR1-1221	12(11.4~12.6)	±5	10	100	72%
DBR1-1222		±9	5.5	55	72%
DBR1-1223		±12	4	40	72%
DBR1-1224		±15	3.3	33	72%
DBR1-1225		±24	2.1	21	72%
DBR1-1201		5, 5	10	100	72%
DBR1-1202		9, 9	5.5	55	72%
DBR1-1203		12, 12	4	40	72%
DBR1-1204		15, 15	3.3	33	72%
DBR1-1205		24, 24	2.1	21	72%
DBR1-2421	24(22.8~25.2)	5	20	200	80%
DBR1-2422		9	11	110	80%
DBR1-2423		12	8.3	83	80%
DBR1-2424		15	6.8	68	80%
DBR1-2425		24	4.2	42	80%
DBR1-2401		±5	10	100	80%
DBR1-2402		9, 9	5.5	55	72%

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Model	Input voltage (Vdc)	Output voltage (Vdc)	Output Current (mA)		Efficiency Typ.
			Min.	Max.	
DBR1-2403		12, 12	4	40	72%
DBR1-2404	24(22.8~25.2)	15, 15	3.3	33	72%
DBR1-2405		24, 24	2.1	21	72%

Notes: other input and output models may available on request.

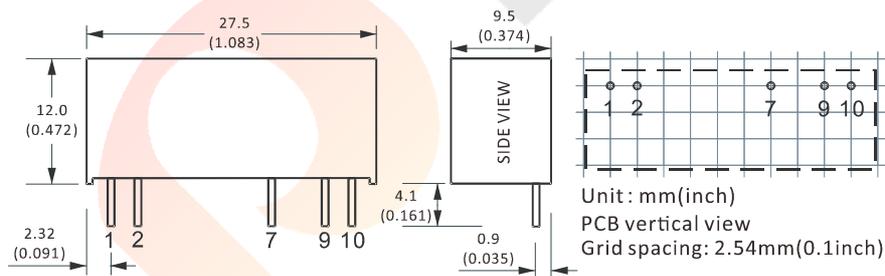
**ELECTRICAL**

Line regulation	---	±0.25%
Load regulation	10% ~ 100% full load	±1%
Ripple and noise	---	100mVp-p max.
Isolation voltage	---	1000Vdc
Short circuit protection	---	Continuous short circuit protection
Operating temperature range	---	-40°C to +85°C
MTBF	---	3.5x10 <sup>6</sup> Hrs

Notes: All the data in this article are under test with "TA+25°C, humidity<75%, rated input and rated load" mode.

**MECHANICAL**

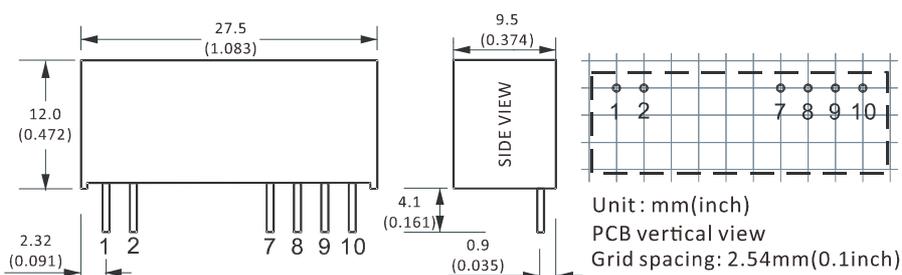
**Dual output**



**CONNECTION**

PIN #	DUAL	ISOLATED TWIN
1	+Vin	+Vin
2	GND	GND
7	+Vo	+Vo1
8	No Pin	-Vo1
9	-Vo	-Vo2
10	COM	+Vo2

**Isolated twin output**

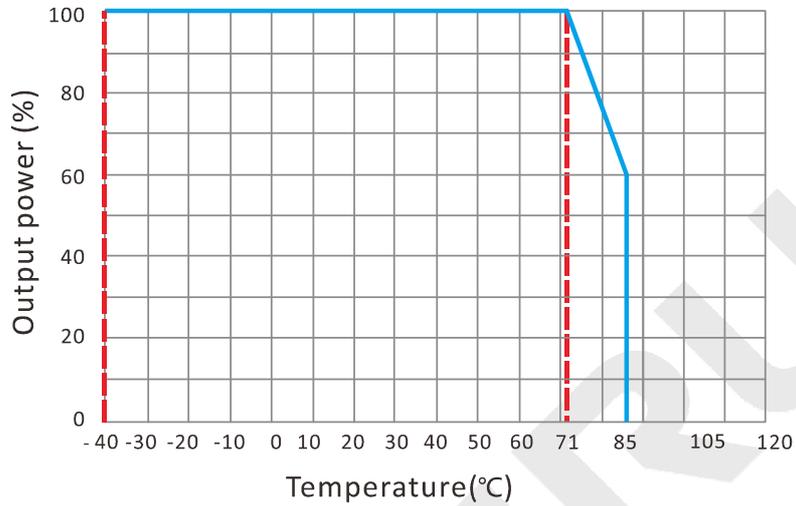


Note:

\* Unit is mm(inch).

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**TEMPERATURE PROFILE**

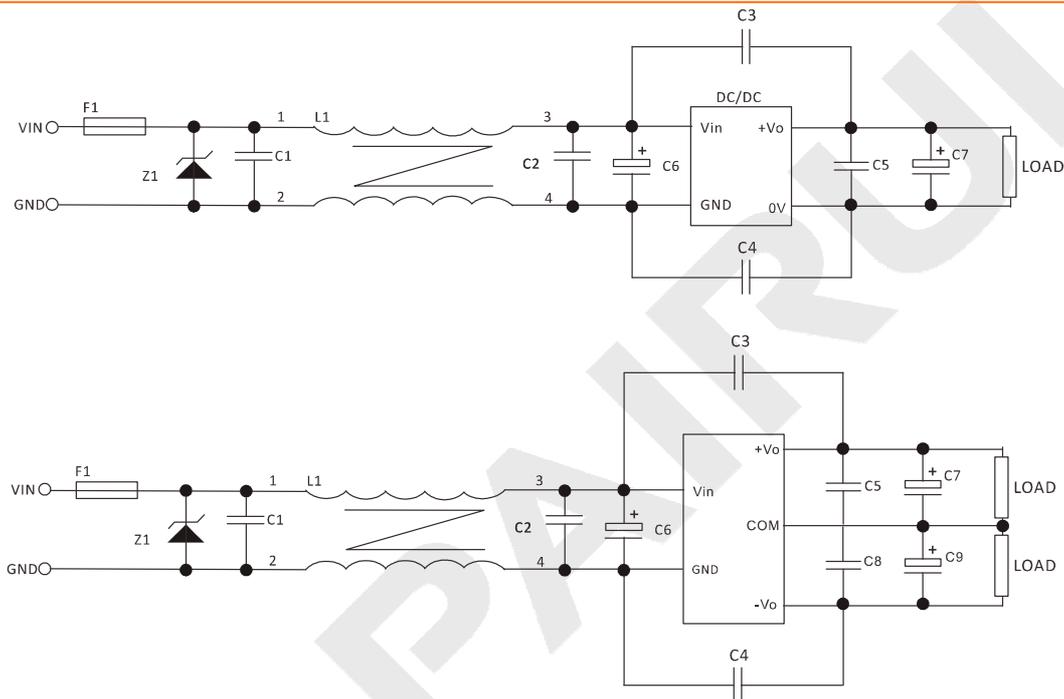


**CAPACITIVE LOADS SELECTION**

Vin (Vdc)	Cin (µF)	Single Output Voltage (Vdc)	Cout (µF)	Dual Output Voltage (Vdc)	Cout (µF)
5	4.7	5	10	±5	4.7
12	2.2	9	4.7	±9	2.2
24	1	12	2.2	±12	1
-	-	15/24	1	±15	0.47

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**NOTES**
**RECOMMENDED TEST AND APPLICATION CIRCUIT**

In order to ensure the efficiency and dependability of the module, the minimum specified load must be less than 10% of rated load. If the output power is low, we recommend to add an external 10% loading resistor in parallel.



FUSE: depends on the actual input current;

TVS: depends on the actual input voltage;

Recommended capacitor: C1, C2, C5, C8, about 0.1 $\mu$ F; for C6, C7, C9, please check the capacitive load; C3, C4: 2KV/1nF.