

DBE-1 SERIES, 1WATT, 1KVDC, UNREGULATED

FEATURES:

- ✓ 3 years warranty
- ✓ 1000Vdc isolation voltage
- ✓ Operating temperature range -40°C to +85°C
- ✓ Compact size



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DBE1-0310	3.3(2.97~3.63)	3.3	30	300	80%
DBE1-0311		5	20	200	80%
DBE1-0312		9	11	110	80%
DBE1-0313		12	8.3	83	80%
DBE1-0314		15	6.8	68	80%
DBE1-0315		24	4.2	42	80%
DBE1-0510	5(4.5~5.5)	3.3	30	300	80%
DBE1-0511		5	20	200	80%
DBE1-0512		9	11	110	80%
DBE1-0513		12	8.3	83	80%
DBE1-0514		15	6.8	68	80%
DBE1-0515		24	4.2	42	80%
DBE1-1210	12(10.8~13.2)	3.3	30	300	80%
DBE1-1211		5	20	200	80%
DBE1-1212		9	11	110	80%
DBE1-1213		12	8.3	83	80%
DBE1-1214		15	6.8	68	80%
DBE1-1215		24	4.2	42	80%
DBE1-2410	24(21.6~26.4)	3.3	30	300	80%
DBE1-2411		5	20	200	80%
DBE1-2412		9	11	110	80%
DBE1-2413		12	8.3	83	80%
DBE1-2414		15	6.8	68	80%
DBE1-2415		24	4.2	42	80%

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

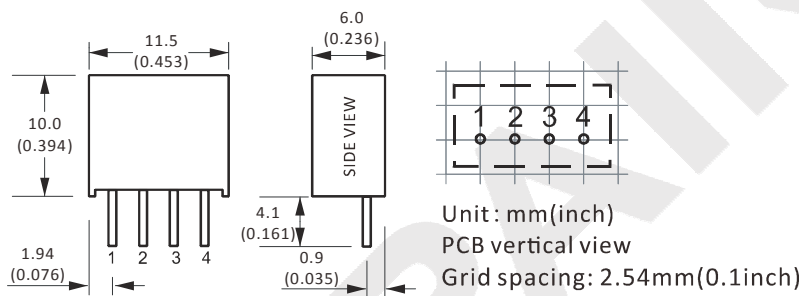
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ELECTRICAL

Line regulation	---	± 1.2%
Load regulation	10% ~ 100% full load	15% max.
Ripple and noise	---	100mVp-p max.
Isolation voltage	---	1000Vdc
Operating temperature range	---	-40°C to +85°C
MTBF	---	3.5x10 ⁶ Hrs

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

MECHANICAL



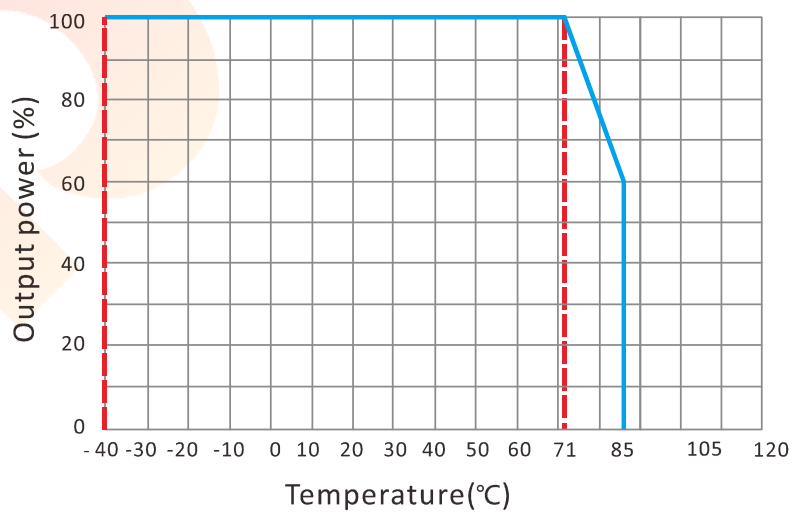
CONNECTION

PIN #	SINGLE
1	GND
2	+Vin
3	-Vo
4	+Vo

Note:

* Unit is mm(inch).

TEMPERATURE PROFILE



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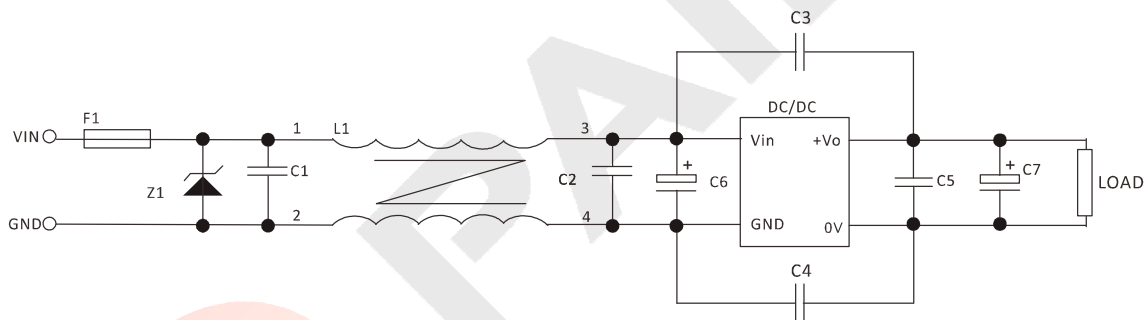
CAPACITIVE LOADS SELECTION

Vin (Vdc)	Cin (μF)	Single Output Voltage (Vdc)	Cout (μF)	Dual Output Voltage (Vdc)	Cout (μF)
3.3/5	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

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,about 0.1uF; for C6,C7,please check the capacitive load; C3,C4:2KV/1nF.