DAR-1 SERIES, 1WATT, 1KVDC, REGULATED

FEATURES:

- ✓ **3 years warranty**
- ✓ **1000Vdc isolation voltage**
- ✓ **Single and dual output models**
- ✓ **Operating temperature range -40°C to +85°C**

Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DAR1-0511		5	20	200	72%
DAR1-0512		9	11	110	72%
DAR1-0513	5(4.75~5.25)	12	8.3	83	72%
DAR1-0514		15	6.8	68	72%
DAR1-0515		24	4.2	42	72%
DAR1-1211		5	20	200	72%
DAR1-1212		9	20	110	72%
DAR1-1213	12(11.4~12.6)	12	11	83	72%
DAR1-1214		15	8.3	68	72%
DAR1-1215		24	6.8	42	72%
DAR1-2411		5	4.2	200	72%
DAR1-2412		9	20	110	72%
DAR1-2413	24(22.8~25.2)	12	20	83	72%
DAR1-2414		15	11	68	72%
DAR1-2415		24	8.3	42	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	---	$3.5x10^6$Hrs

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

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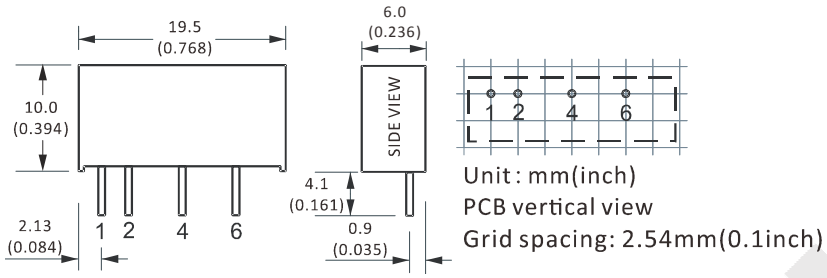
MECHANICAL



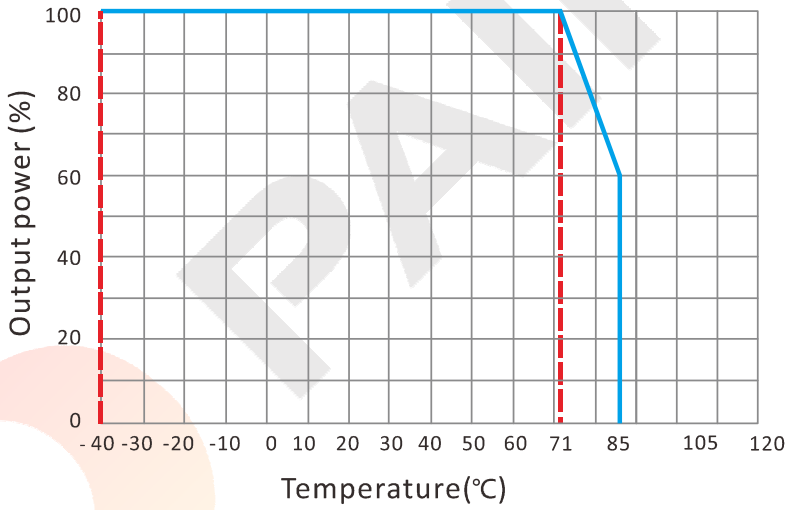
Unit : mm(inch)
PCB vertical view
Grid spacing: 2.54mm(0.1inch)

CONNECTION

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

Note:
* Unit is mm(inch).

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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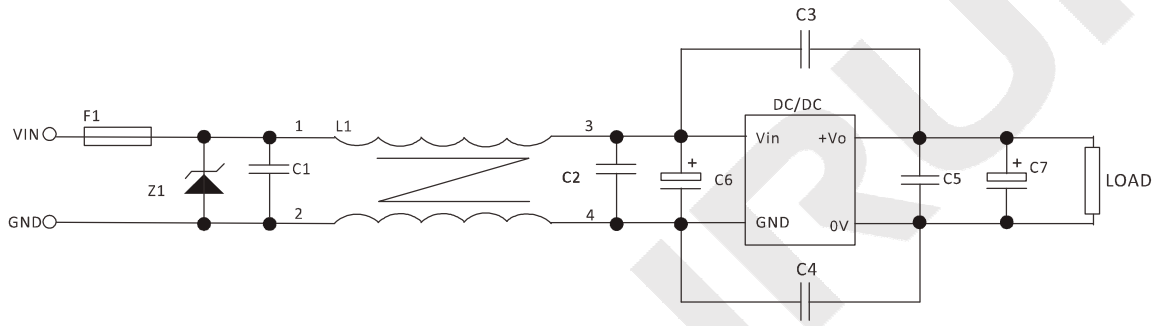
NOTES

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