DMV-15W SERIES, 15WATT, 4:1 INPUT RANGE

FEATURES:

- ✓ **2 year warranty**
- ✓ **Six-side shielded metal case**
- ✓ **Low ripple and noise**
- ✓ **Over current and short circuit protection**
- ✓ **Remote on/off**
- ✓ **Adjustable output voltage**

Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)	Efficiency Typ.
DMV15W-1811		5	3000	80%
DMV15W-1812		9	1600	85%
DMV15W-1813		12	1250	85%
DMV15W-1814		15	1000	85%
DMV15W-1815		24	625	85%
DMV15W-1816	18(9~36)	48	310	85%
DMV15W-1821		±5	±1500	80%
DMV15W-1822		±9	±830	85%
DMV15W-1823		±12	±625	85%
DMV15W-1824		±15	±500	85%
DMV15W-1825		±24	±310	85%
DMV15W-3611		5	3000	80%
DMV15W-3612		9	1600	85%
DMV15W-3613		12	1250	85%
DMV15W-3614		15	1000	85%
DMV15W-3615		24	625	85%
DMV15W-3616	36(18~72)	48	310	85%
DMV15W-3621		±5	±1500	80%
DMV15W-3622		±9	±830	85%
DMV15W-3623		±12	±625	85%
DMV15W-3624		±15	±500	85%
DMV15W-3625		±24	±310	85%

Notes:

1. Other input and output models may available on request;

2. Above models are default to metal case.

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ELECTRICAL		
Input voltage range	18V	9-36Vdc
	36V	18-72Vdc
Remote control	High level or vacant	Turn on
(Low level remote)	Low level or connect ground	Turn off
Output voltage accuracy	---	Vo1, Vo2: ±1%, ±3%
Output voltage adjustable	---	±10%
Line regulation	Nominal Load, full voltage	Vo1, Vo2: ±0.2%, ±1.5%
Load regulation	20% ~ 100% rated load	Vo1, Vo2: ±0.5%, ±4%
Dynamic response (transient/recovery time)	5%-50%-75% load capability	ΔVo1/Δt: ±4.0%/500μs
Ripple and noise	20MHz BM, full load	Vo≤5.0V, ≤50mVp-p Vo≥48V, ≤180mVp-p Other, ≤100mVp-p
Isolation voltage	Input to output	1500Vdc
(<2mA/min)	Input to case	500Vdc
Switching frequency	300KHz	330KHz max.
Turn-on delay time	---	≤200ms
Operating temperature range	Free air	-25℃ to +55℃
Storage temperature range	---	-45℃ to +105℃
Input under voltage protection	When input voltage is lower than the low input voltage	Auto-recovery
Over current protection	---	Auto-recovery
Short circuit protection	---	Continuous auto-recovery
Cooling method	---	Cooling by air convection
Relative humidity	---	10%-90% max.
Weight	---	35.7g
MTBF	Bellcore TR-332, 25℃	$2x10^5$Hrs

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

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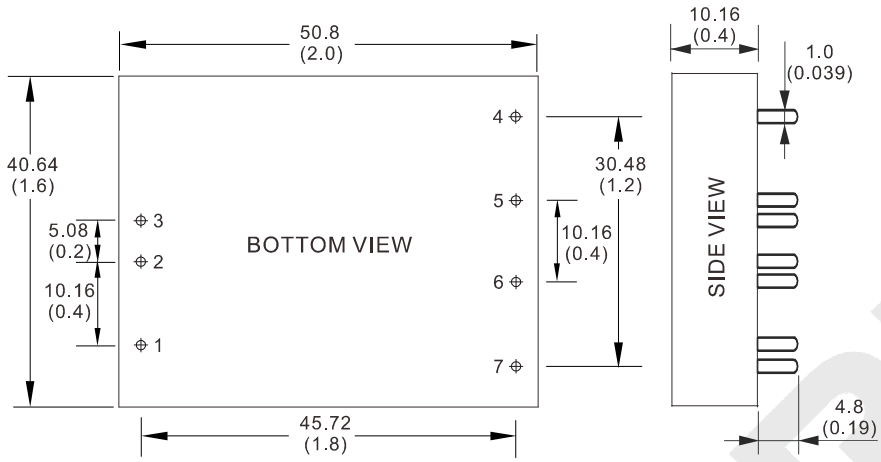
MECHANICAL



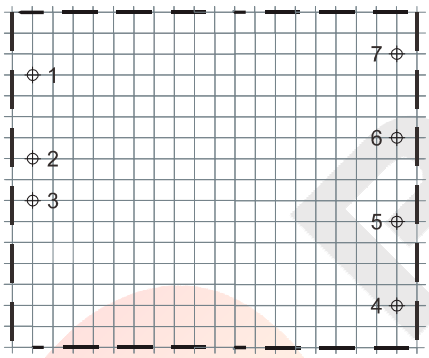
CONNECTION

PIN #	SINGLE	DUAL
1	REM	REM
2	-Vin	-Vin
3	+Vin	+Vin
4	No pin	+Vo1
5	+Vo	COM
6	GND	-Vo2
7	TRIM	TRIM

Note:

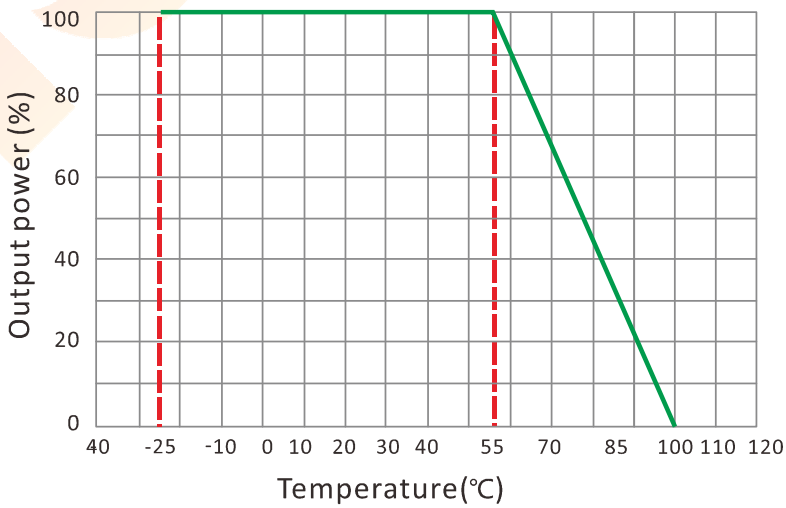
* Unit is mm(inch).

LAYOUT



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

TEMPERATURE PROFILE



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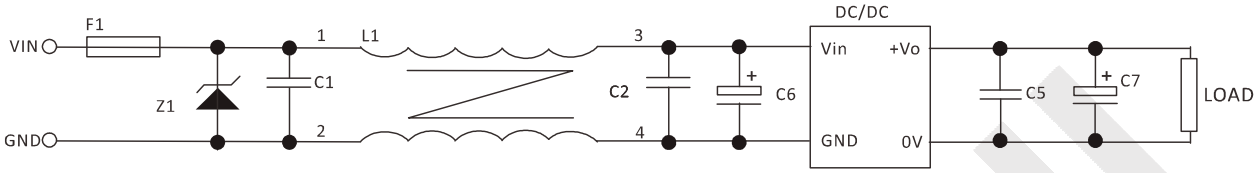
NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT



1. TVS&FUSE be helpful with over voltage protection and inrush limiting. Recommended FUSE better be 1.5~2times of the rated current .
2. The input filter capacitor C6 could select the aluminum electrolytic capacitors or tantalum capacitors, and the withstand voltage should be greater than the highest input voltage. Recommended capacitor should be between 22μF~100μF.
3. C1,C2 for the input filter capacitor,0.1~1μF high-frequency ceramics capacitor or chip capacitor are recommended. The withstand voltage of output filter C5, C7 should be greater than the highest output voltage. Recommended capacitor of C7 better within 100μF and C5 connected with the chip to reduce the input voltage peak, recommended 0.1~1μF high-frequency ceramics capacitor or chip capacitor.