PAIRUI

DC-DC Converter
SIP-Package

DMV78xx-1000 SERIES, NON-ISOLATED, 3 PIN, SWITCHING REGULATORS

FEATURES:

- ✓ **Wide input voltage range**
- ✓ **High efficiency up to 97%**
- ✓ **Miniature SIP package**
- ✓ **Low ripple & noise**
- ✓ **Operating temperature range -40℃ to +85℃**
- ✓ **3 year warranty**

Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)	Efficiency Typ.
DMV781V5-1000	4.75-26	1.5	1000	80%
DMV781V8-1000	4.75-26	1.8	1000	82%
DMV782V5-1000	4.75-28	2.5	1000	88%
DMV7803-1000	4.75-28	3.3	1000	90%
DMV7805-1000	6.5-32	5	1000	93%
DMV7806-1000	9-32	6.5	1000	94%
DMV7809-1000	12-32	9	1000	95%
DMV7812-1000	16-32	12	1000	96%
DMV7815-1000	20-32	15	1000	97%

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

ELECTRICAL		
Output voltage accuracy	Full load	±2.0% typ.
Line regulation	Nominal Load, full voltage	±0.5% typ.
Load regulation	20% ~ 100% full load	±0.5% typ.
Ripple and noise	20MHz BM, full load	≤75mVp-p typ.
Operating frequency	Typical value	330KHz typ.
Operating temperature range	---	-40℃ to +85℃
Storage temperature range	Humidity: 5%-95%, non-condensing	-55℃ to +120℃
Over temperature protection	---	150℃ typ.
Short circuit protection	---	Auto-recovery
Relative humidity	---	10% - 90%
MTBF	Bellcore TR-332, 25℃	1000K Hrs
Weight	---	3.86g

Notes: All the parameters are measured at 25℃ ambient temperature, humidity < 75%, nominal input voltage, full load and after warm-up, unless otherwise specified.

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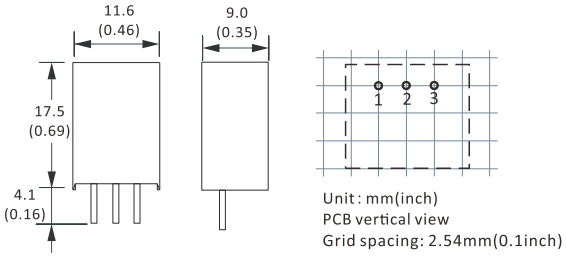
MECHANICAL



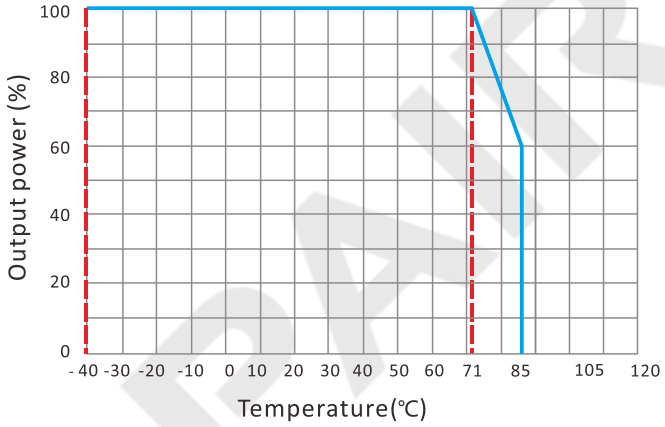
CONNECTION

PIN #	SINGLE
1	+Vin
2	GND
3	+Vo

Note:

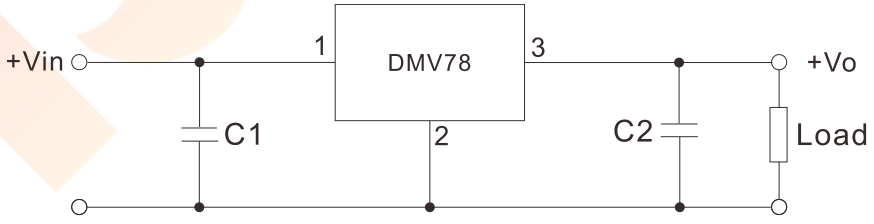
* Unit is mm(inch).

ELECTRICAL CURVE



NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT



C1: Ceramic capacitor, 10uF

C2: Ceramic capacitor, 22uF