

MORNSUN®

Newest Chiplet SiP

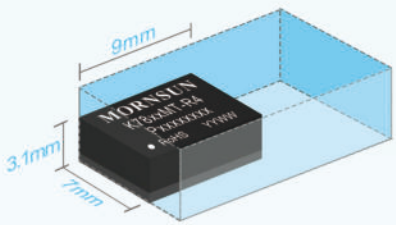
Non-isolated Switching Regulators

K78xxMT-R4

>> Advantages of K78xxMT-R4 <<

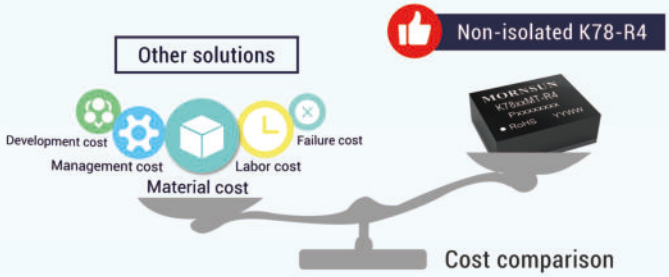
1 Micro-size

- 63% layout space saving
- 86% dimensions reduction
- 3.1mm thickness



2 Chiplet SiP to save cost

- Chiplet SiP integrating
- Simplify process from design to assembly
- Micro-DFN package (SMD package) for SMT process



3 Excellent performance

- AEC-Q100 approved
- High efficiency up to 94%
- Operating temperature range: -40℃ to +105℃
- ESD meets ±6KV (Contact)
- Continuous short circuit protection
- No-load input current as low as 0.1mA

*For detailed information, please refer to the datasheet.

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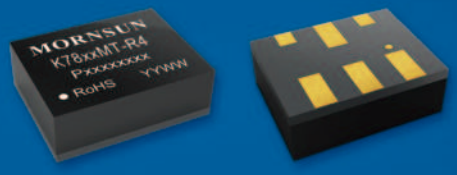
Website

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Technical Specifications (K78xxMT-R4)

Features

- Ultra-small, ultra-thin DFN package (9.00 x 7.00 x3.10mm)
- Operating ambient temperature range: -40℃ to +105℃
- High efficiency up to 94%
- No-load input current as low as 0.1mA
- Continuous short circuit protection
- AEC-Q100 approved (under testing)
- Meets EN62368 safety standards (Pending)



Patent Protection RoHS

3 years Warranty

Continuous Short Circuit Protection

Selection Guide

Part No.	Input Voltage (VDC)	Output		Full Load	Capacitive Load (μF)
	Range	Voltage (VDC)	Current (mA) Max.	Efficiency (%) Typ. Vin Min./ Vin Nominal / Vin Max	Max.
K7803MT-500R4	4.5-36	3.3	500	89/79/71	680
	7-32	-3.3	-300	80/82/71	470
K7805MT-500R4	6.5-36	5	500	91/83/78	680
	7-31	-5	-300	78/78/71	470
K78X6MT-500R4	8-36	6.5	500	91/85/81	680
	7-28	-6.5	-250	80/79/73	470
K7809MT-500R4	12-36	9	500	92/90/86	680
	8-27	-9	-200	82/82/77	470
K7812MT-500R4	15-36	12	500	92/91/86	680
	8-24	-12	-150	81/83/79	470
K7815MT-500R4	18-36	15	500	91/91/87	680
	8-21	-15	-150	80/81/84	470
K7803MT-1000R4	4.75-36	3.3	1000	89/84/81	680
	8-27	-3.3	-500	85/85/81	330
K7805MT-1000R4	6.5-36	5	1000	92/87/84	680
	8-27	-5	-500	85/85/83	330
K78X6MT-1000R4	8-36	6.5	1000	92/88/86	680
	8-24	-6.5	-500	83/85/84	330
K7809MT-1000R4	12-36	9	1000	92/90/87	680
	8-24	-9	-500	81/85/84	330
K7812MT-1000R4	15-36	12	1000	94/91/89	680
	8-20	-12	-300	83/85/84	330
K7815MT-1000R4	18-36	15	1000	94/93/90	680
	8-18	-15	-300	82/84/84	330

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