

SMD NON-ISOLATED SWITCHING REGULATORS K78T SERIES

MORNSUN K78 series are non-isolated regulators known for compact size, high efficiency and compatible with traditional LM78xx linear regulators. New SMD packaged K78T-500R3/ K78T-1000R3 series are introduced to meet the reflow soldering production requirements.

The peak temperature of reflow soldering is $T_c \leq 245^\circ\text{C}$ and keeps 60s (Max.) above 217°C , which meets the IPC/ JEDEC J-STD-020D.1 standard. Dimension is $15.24 \times 11.40 \times 8.25$ mm (about $0.6 \times 0.45 \times 0.32$ inch). Efficiency is up to 95 % and operating temperature ranges from -40 to $+85^\circ\text{C}$, without additional heat sink.

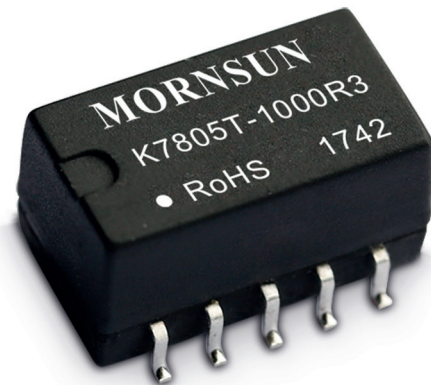
Besides, these K78T-R3 series also provide a wide input voltage range ($4.75\text{-}36\text{V}$), continuous short-circuit protection, adjustable output voltage ($\pm 10\%$) and remote voltage control and so on, which can be widely used in industrial control, grid power, instrumentation, mining and other related industries.

FEATURES

- SMD package
- High efficiency up to 95 %
- No-load input current as low as 0.2 mA
- Operating temperature range: -40°C to $+85^\circ\text{C}$
- Output short circuit protection
- Meet UL62368, EN62368, IEC62368 (pending)



K78T-500R3



K78T-1000R3

K78T-500R3

Input Voltage (VDC)	4.75 - 36
Output Voltage (VDC)	1.5, 1.8, 2.5, 3.3, 5, 6.5, 9, 12, 15
Output Current (mA)	500
No of Output	1
Package	SMD
Dimension (mm)	$15.24 \times 11.40 \times 8.25$
Certification	UL / CE / CB (pending)

K78T-1000R3

Input Voltage (VDC)	4.75 - 36
Output Voltage (VDC)	1.5, 1.8, 2.5, 3.3, 5, 6.5, 9, 12
Output Current (mA)	1000
No of Output	1
Package	SMD
Dimension (mm)	$15.24 \times 11.40 \times 8.25$
Certification	UL / CE / CB (pending)