


 Datasheet

 All Models

VX78-500 Series NRND

3 Pin SIP Non-Isolated Dc-Dc Converter

This product is Not Recommended for New Design (NRND) and availability is limited to remaining stock in distribution. Please visit the [parametric search](#) to find available replacements.

Recommended Replacement

[Datasheet](#)

P78A-0500 Series | 500 mA Output Current, 6~28 Vdc Input, 3 Pin SIP, Non-Isolated, Dc-Dc Converter


0.5 A

3 ~ 15 Vdc output options

36 Vdc max input voltage

-40 to +85°C temperature range

Pin compatible with LM78XX and LM79XX linear regulators

Wide input voltage range

Suited for negative output applications

No-load input current as low as 0.2 mA

Low ripple and noise

Efficiency up to 95%

Safety & Compliance

Safety Standards - 60950

Safety Approvals - CSA, UL/cUL

Documents

[↓ RoHS & REACH](#)
[↓ CE Declaration](#)

Description

The compact, encapsulated VX78-500 non-isolated **dc-dc converter** series, suited for positive or negative output applications, has been designed to offer a high performance alternative to linear regulators. Utilizing switching technology, this series is footprint compatible with TO-220 package LM78XX and LM79XX model regulators. Unlike linear regulators, the VX78-500 **dc switching regulator** series is extremely efficient up to 95% and does not require a heat sink, making it ideal for applications where board space is at a premium and maximizing energy efficiency is a concern.

Specifications

Regulation	Yes
Package Type	SIP
Isolation (Vdc)	0
Safety Standards	60950
Dimensions LxWxH (in)	0.457 x 0.297 x 0.4
Dimensions LxWxH (mm)	11.6 x 7.55 x 10.16
Protections	Short Circuit

ALL MODELS

Model Number

Input Voltage (Vdc)

Power (W)

Output Voltage (Vdc)
















Output Current (A)

Safety Approvals

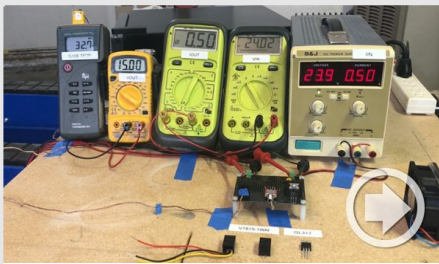
3D Model

PCB Footprint

Stock Check

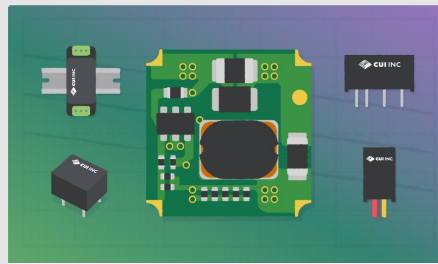
VX7803-500	4.75 ~ 36	1.65	3.3	0.5	UL/cUL, CSA			
VX7805-500	6.5 ~ 36	2.5	5	0.5	UL/cUL, CSA			
VX78039-500	12 ~ 36	4.5	9	0.5	UL/cUL, CSA			
VX78012-500	15 ~ 36	6	12	0.5	UL/cUL, CSA			
VX7815-500	19 ~ 36	7.5	15	0.5	UL/cUL, CSA			

NEWS AND RESOURCES



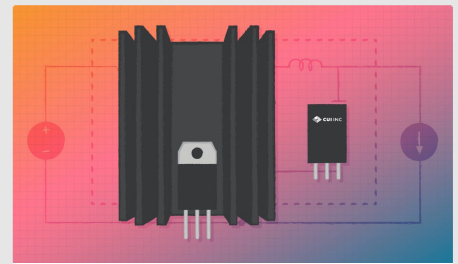
A Comparison Between Dc Switching Regulators & Linear Regulators

 Video



How to Select a Dc-Dc Converter

 Blog Post



A Comparison Between Dc Switching Regulators and Linear Regulators

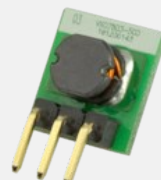
 Blog Post

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VXO78-1000 Series

1 A Output Current, 6~36 Vdc Input, 3 Pin SIP, Non-Isolated, Dc-Dc Converter



VXO78-500 Series

500 mA Output Current, 4.75~36 Vdc Input, 3 Pin SIP, Non-Isolated, Dc-Dc Converter



PYB10-DIN Series

10 W, 4:1 Input Range, Single/Dual Regulated Output, DIN Rail, 1500 Vdc Isolation, Dc-Dc Converter

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