AM3N-D Series

3 watt dc-dc converters

Picture Available Soon

- DUAL REGULATED OUTPUTS
- 24 PIN DIP PACKAGE
- LOW RIPPLE & NOISE
- HIGH EFFICIENCY UP TO 80%
- LOW PROFILE PACKAGING
- INPUT/OUTPUT ISOLATION: 1000, 3000 & 5200VDC
- 5200VDC ISOLATION, PLASTIC CASE
- OPERATING TEMPERATURE: -25°C ... +71°C
- CONTINUOUS SHORT CIRCUIT PROTECTION
- PIN-COMPATIBLE WITH MULTIPLE MANUFACTURERS

GENERAL DESCRIPTION

Our AM3N-D series is a family of cost effective 3W dual output DC/DC converters. These converters combines miniature package in a 24-pin DIP compatible case with high performance features such as 1000, 3000 & 5200VDC input/output isolation voltage, continuous short circuit protection with automatic restart and tight line/load

regulation. Seventy two models operate from input voltages of 5, 12 & 24VDC with producing output voltage levels of ± 3.3 , ± 5 , ± 7.2 , ± 9 , ± 12 , ± 15 , ± 18 & ± 24 VDC. Full SMD-design and a 100% production test of parameters ensures a high reliability in this product.

ELECTRICAL SPECIFICATIONS

Specifications typical at +25°C, nominal input voltage, rated output current unless otherwise specified

Input Specifications:			
Voltage range	$\pm 10\%$		
Filter	p (Pi) Network		
Isolation Specifications:			
Rated voltage	1000, 3000 or 5200VDC		
Resistance	> 1000MOhm		
Capacitance	60pF, typ.		
General Specifications:			
Efficiency	66% to 80%		
Switching Frequency	250kHz, typ. 100% load		
Physical Specifications:			
Dimensions	31.75x20.32x10.16 mm		
	1.25x0.8x0.4 inches		
Weight	14.5 g		
Case material	Nickel-Coated Copper		

Output Specifications:					
Voltage accuracy	±2%, max.				
Voltage balance	±1%				
Ripple & noise (at 20MHz BW)	75mVp-p, max.				
Short circuit protection	Continuous				
Short circuit restart	Automatic				
Line voltage regulation	±0.5%, max.				
Load voltage regulation	±0.5%, max.				
Temperature Coefficient	±0.02%/°C, typ.				
Environmental Specifications:					
Operating temperature (ambient)	-25°C +71°C				
Storage temperature	-40°C +125°C				
Case Temperature	+90°C, max.				
Derating	None required				

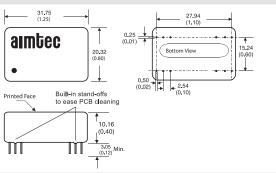
Humidity (non-condensing)

Cooling

MTBF: > 1,000,000 hrs (MIL-HDBK-217F, Ground Benign, t=+25°C)

Specifications are subject to change without notification

OUTLINE DIMENSIONS & PIN CONNECTIONS



Pin	1000VDC	3000 & 5200VDC		
1	+V Input	+V Input		
2	-V Output	+V Input		
3	Common.	Omitted		
10	Common	Common		
11	+V Output	Common		
12	-V Input	Omitted		
13	-V Input	-V Output		
14	+V Output	Omitted		
15	Common	+V Output		
22	Common	Omitted		
23	-V Output	-V Input		
24	+V Input	-V Input		

Up to 90%

Free-air Convection

AM3N-D Series

MODELS

Models		Input	Ouput	Ouput	
Isolation 1000VDC	Isolation 3000VDC	Isolation 5200VDC	Voltage	Voltage	Current max.
AM3N-0503D-R	AM3N-0503DH30-R	AM3N-0503DH52-R	5V±10%	±3.3VDC	±400mA
AM3N-0505D-R	AM3N-0505DH30-R	AM3N-0505DH52-R		±5VDC	±300mA
AM3N-0507D-R	AM3N-0507DH30-R	AM3N-0507DH52-R		±7.2VDC	±208mA
AM3N-0509D-R	AM3N-0509DH30-R	AM3N-0509DH52-R		±9VDC	±167mA
AM3N-0512D-R	AM3N-0512DH30-R	AM3N-0512DH52-R		±12VDC	±125mA
AM3N-0515D-R	AM3N-0515DH30-R	AM3N-0515DH52-R		±15VDC	±100mA
AM3N-0518D-R	AM3N-0518DH30-R	AM3N-0518DH52-R		±18VDC	±84mA
AM3N-0524D-R	AM3N-0524DH30-R	AM3N-0524DH52-R		±24VDC	±63mA
AM3N-1203D-R	AM3N-1203DH30-R	AM3N-1203DH52-R		±3.3VDC	±400mA
AM3N-1205D-R	AM3N-1205DH30-R	AM3N-1205DH52-R		±5VDC	±300mA
AM3N-1207D-R	AM3N-1207DH30-R	AM3N-1207DH52-R		±7.2VDC	±208mA
AM3N-1209D-R	AM3N-1209DH30-R	AM3N-1209DH52-R	12V±10%	±9VDC	$\pm 167 \text{mA}$
AM3N-1212D-R	AM3N-1212DH30-R	AM3N-1212DH52-R	12 V ±10/0	±12VDC	±125mA
AM3N-1215D-R	AM3N-1215DH30-R	AM3N-1215DH52-R		±15VDC	±100mA
AM3N-1218D-R	AM3N-1218DH30-R	AM3N-1218DH52-R		±18VDC	±84mA
AM3N-1224D-R	AM3N-1224DH30-R	AM3N-1224DH52-R		±24VDC	±63mA
AM3N-2403D-R	AM3N-2403DH30-R	AM3N-2403DH52-R	24V±10%	±3.3VDC	±400mA
AM3N-2405D-R	AM3N-2405DH30-R	AM3N-2405DH52-R		±5VDC	±300mA
AM3N-2407D-R	AM3N-2407DH30-R	AM3N-2407DH52-R		±7.2VDC	±208mA
AM3N-2409D-R	AM3N-2409DH30-R	AM3N-2409DH52-R		±9VDC	±167mA
AM3N-2412D-R	AM3N-2412DH30-R	AM3N-2412DH52-R		±12VDC	±125mA
AM3N-2415D-R	AM3N-2415DH30-R	AM3N-2415DH52-R		±15VDC	±100mA
AM3N-2418D-R	AM3N-2418DH30-R	AM3N-2418DH52-R		±18VDC	±84mA
AM3N-2424D-R	AM3N-2424DH30-R	AM3N-2424DH52-R		±24VDC	±63mA