

LAN-1

1 TO 2 WATT LAN
DC-DC CONVERTERS

Feature

- 24-Pin DIP Package
- Cheapernet Application
- Pi Input Filter
- 5 or 12 VDC Input
- Full Power to +71°C

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT NO LOAD	INPUT CURRENT FULL LOAD	PIN CONN.	CASE
REGULATED							
EC2A09	5 VDC	9 VDC	140 mA	120 mA	540 mA	B	A
EC2A19	12 VDC	9 VDC	140 mA	45 mA	215 mA	B	A
UNREGULATED							
EC2A09N	5 VDC	9 VDC	250 mA	100 mA	600 mA	A	A
EC2A19N	12 VDC	9 VDC	250 mA	40 mA	260 mA	A	A

Pin	A	B	
1	+V Input	+V Input	<ul style="list-style-type: none"> • External Resistor R1. • C1=10.0μF 25V Tantalum Capacitor • R1=100Ω • NC=No Connection (With Pin) C1 will improve output noise performance. It is not required for converter operation. Regulated units only (EC2A09, EC2A19). Pin 9 provides a preregulated output voltage, which when used as shown above provides for a full load output current of 140 mA, when load current is less than 60 mA output voltage will rise and for a no load condition it can rise to approximately 13 volts.
2	NC*	+V Input	
3	NC*	+V Input	
9	No Pin	Resistor	
10	-V Output	+V Output	
11	+V Output	+V Output	
12	-V Input	+V Output	
13	-V Input	-V Output	
14	+V Output	-V Output	
15	-V Output	-V Output	
22	NC*	-V Input	
23	NC*	-V Input	
24	+V Input	-V Input	

Specifications

INPUT SPECIFICATIONS:

Input Voltage	5 or 12VDC
Input Voltage Range.....	±10%
Input Filter.....	Pi Type

OUTPUT SPECIFICATIONS:

Output Voltage.....	9 VDC
.....	+10 VDC
.....	+5 VDC
Voltage Accuracy, 9 VDC.....	+5.0% max.
+10 VDC.....	±4.0%
+5 VDC.....	±2.0%
Ripple & Noise, 20MHz BW, 9VDC.....	100mV p-p
+10 VDC.....	300mV p-p
+5 VDC.....	300mV p-p
Short Circuit Protection.....	Momentary
Line Regulation	
Regulated Models.....	±0.3%
Unregulated Models ¹	±1.2%
Load Regulation	
Regulated Models ²	±0.5%
Unregulated Models ³	±6.0%

GENERAL SPECIFICATIONS:

Efficiency	
Regulated Models.....	50%
Unregulated Models.....	70%
Switching Frequency.....	20KHz, min.
Isolation Voltage.....	500 VDC min.
Operating Temperature Range.....	-25°C to + 71°C
Case Temperature.....	95°C max.
Cooling.....	Free-Air Convection
Storage Temperature Range.....	-40°C to + 85°C
Dimensions.....	1.25 x 0.8 x 0.4 inches (31.8 x 20.3 x 10.2mm)
Case Material.....	Non-Conductive Black Material

NOTE:

1. Per 1% Change in Input Voltage
2. For a Load Change from 60mA to 140mA.
3. For a Load Change from 100% Full Load to 20% Full Load.

CASE A

NOTE: PIN SIZE IS .020 INCH (0.5mm) DIA. OR .020 x .014 INCH
All Dimensions In Inches (mm)

PIN CONFIGURATION SUFFIX "B"

