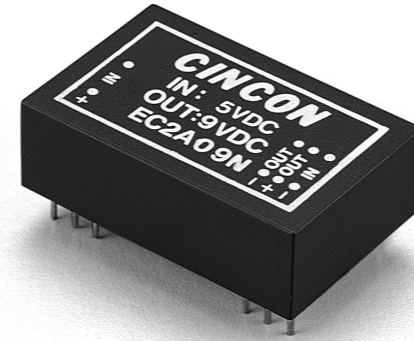


LAN-1

1 TO 2 WATT LAN DC-DC CONVERTERS



Features

- 24-Pin DIP Package
- Cheaper 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							
EC2A09M	5 VDC	9 VDC	140 mA	120 mA	540 mA	B	A
EC2A19M	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
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

- 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.

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 Plastic
Suffix "M" Model	.....Black Coated Copper with.....Non-Conductive Base
Weight	.....12.5g

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.
All Dimensions In Inches (mm)

