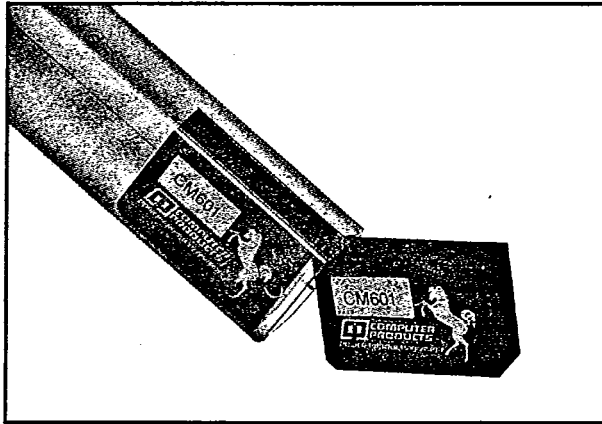


T-57-11



NEW!

CM600 SERIES Single Output

- CheaperNet Application
- 9 Volt DC Output Up to 250 mA
- Full Power to +71°C
- Standard 24 Pin DIP Package
- Optional Pi Input Filter
- 5 or 12 VDC Input

The CM 600 Series of low cost, highly reliable DC/DC Converters is intended to power transceiver chips for CheaperNet local area networking. This series provides -9 VDC in a compact 24-Pin DIP Package. These units are ideally suited for high density PC board applications where space is at a premium. The CM600 Series is available with internal Pi type filter or capacitor input filter as indicated in the description table. This series offers both regulated and unregulated outputs.

The CM 600 Series can accommodate either a 5 VDC or 12 VDC input voltage. The units provide full power up to +71°C. The input/output isolation is 500 VAC RMS minimum. This is a requirement for CheaperNet local area networking applications.



(305) 974-2442

SPECIFICATIONS

All Specifications Typical at Nominal Line, Full Load and 25°C Unless Otherwise Noted.

OUTPUT SPECIFICATIONS

Output Voltage 9 VDC
 Voltage Accuracy ± 5%
 Ripple and Noise, 20 MHz BW 100 mV P-P
 Short Circuit Protection
 CM621, 621D, 622, 622D Momentary
 All Other Models Power Foldback

INPUT SPECIFICATIONS

Input Voltage 5 or 12 VDC
 Input Voltage Range ± 10%

GENERAL SPECIFICATIONS

Efficiency
 Regulated Models 50%
 Unregulated Models 65-75%
 Switching Frequency 35-60 kHz
 Isolation Voltage 500 VAC RMS, min.

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range
 CM621, 621D, 622, 622D 0°C to +71°C
 All Other Models -25°C to +71°C
 Derating None
 Storage Temperature Range -40°C to +85°C
 Cooling Free Air Convection

PHYSICAL SPECIFICATIONS

Weight 0.5 oz (14 g.)
 Case Material Non-Conductive Black Material

TWO-YEAR WARRANTY



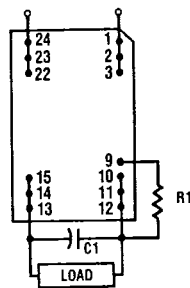
1 to 2 Watt LAN DC/DC Converters

T-57-11

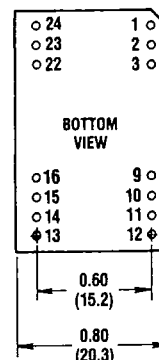
INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		INPUT FILTER	REFLECTED RIPPLE CURRENT	REGULATION		PIN CONF.	CASE	MODEL NUMBER
			NO LOAD	FULL LOAD			LINE	LOAD			
REGULATED											
5 VDC	9 VDC	140 mA	120 mA	540 mA	Pi	120 mA	±0.4%	±0.4% ²	A	F	CM601
5 VDC	9 VDC	140 mA	120 mA	540 mA	CAP	2500 mA	±0.4%	±0.4% ²	A	F	CM602
12 VDC	9 VDC	140 mA	45 mA	215 mA	Pi	120 mA	±0.4%	±0.4% ²	A	F	CM603
12 VDC	9 VDC	140 mA	45 mA	215 mA	CAP	1250 mA	±0.4%	±0.4% ²	A	F	CM604
UNREGULATED											
5 VDC	9 VDC	145 mA	110 mA	415 mA	Pi	90 mA	1.2% ¹	6.0% ³	B,D ⁴	F	CM611
5 VDC	9 VDC	145 mA	110 mA	415 mA	CAP	2000 mA	1.2% ¹	6.0% ³	B,D ⁴	F	CM612
5 VDC	9 VDC	250 mA	150 mA	725 mA	CAP	3000 mA	1.2% ¹	6.0% ³	C,D ⁴	F	CM621
12 VDC	9 VDC	145 mA	40 mA	165 mA	Pi	90 mA	1.2% ¹	5.0% ³	B,D ⁴	F	CM613
12 VDC	9 VDC	145 mA	40 mA	165 mA	CAP	1000 mA	1.2% ¹	5.0% ³	B,D ⁴	F	CM614
12 VDC	9 VDC	250 mA	55 mA	290 mA	CAP	1500 mA	1.2% ¹	5.0% ³	C,D ⁴	F	CM622

- NOTES: 1. Per 1% change to Input Voltage.
 2. For a Load change from 60 mA to 140 mA.
 3. For a Load change from 100% Full Load to 20% Full Load.
 4. For "D" Pin Configuration option, add suffix letter "D" to model number, i.e., CM622D.

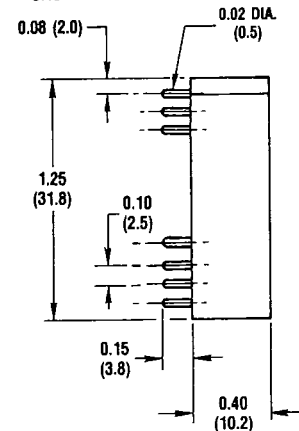
PIN CONFIGURATION
SUFFIX A



ALL DIMENSIONS IN INCHES (mm)



CASE F



Pin Connections				
Pin	A	B	C	D
1	+V Input	+V Input	+V Input	+V Input
2	+V Input	+V Input	NC	+V Input
3	+V Input	+V Input	NC	NC
9	Resistor*	+V Output	No Pin	-V Output
10	+V Output	+V Output	-V Output	-V Output
11	+V Output	+V Output	+V Output	+V Output
12	+V Output	+V Output	-V Input	+V Output
13	-V Output	-V Output	-V Input	NC
14	-V Output	-V Output	+V Output	NC
15	-V Output	-V Output	-V Output	NC
16	No Pin	No Pin	NC	No Pin
22	-V Input	-V Input	NC	NC
23	-V Input	-V Input	NC	-V Input
24	-V Input	-V Input	+V Input	-V Input

*External Resistor R1.
 C1 = 10.0 μF, 25V Tantalum Capacitor
 R1 = 100Ω

C1 Will improve output noise performance. It is not required for converter operation. Regulated units only (CM601, 602, 603 & 604), Pin 9 provides a pre-regulated 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.