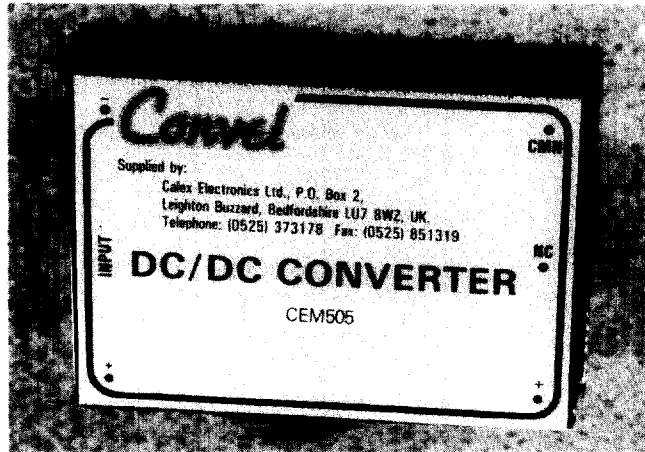


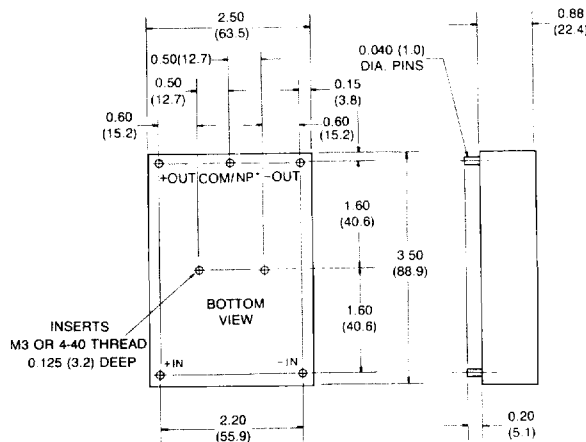
## 10 to 12 WATT DC/DC CONVERTERS CEM500 SERIES



- High Performance
- 60% Efficiency
- Regulated Outputs
- Pi Input Filter
- Six-Sided Shield

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		CASE
				NO LOAD	FULL LOAD	
CEM501	5 VDC	5 VDC	2000 mA	70 mA	3300 mA	D
CEM502	5 VDC	12 VDC	940 mA	90 mA	3500 mA	D
CEM503	5 VDC	15 VDC	800 mA	100 mA	3670 mA	D
CEM504	5 VDC	± 12 VDC	± 525 mA	130 mA	3840 mA	D
CEM505	5 VDC	± 15 VDC	± 412 mA	180 mA	3780 mA	D
CEM506	12 VDC	5 VDC	2000 mA	30 mA	1350 mA	D
CEM507	12 VDC	12 VDC	940 mA	40 mA	1450 mA	D
CEM508	12 VDC	15 VDC	800 mA	50 mA	1540 mA	D
CEM509	12 VDC	± 12 VDC	± 525 mA	80 mA	1800 mA	D
CEM510	12 VDC	± 15 VDC	± 412 mA	90 mA	1570 mA	D
CEM511	24 VDC	5 VDC	2000 mA	20 mA	690 mA	D
CEM512	24 VDC	12 VDC	940 mA	25 mA	700 mA	D
CEM513	24 VDC	15 VDC	800 mA	25 mA	730 mA	D
CEM514	24 VDC	± 12 VDC	± 525 mA	50 mA	780 mA	D
CEM515	24 VDC	± 15 VDC	± 412 mA	50 mA	760 mA	D
CEM516	28 VDC	5 VDC	2000 mA	20 mA	590 mA	D
CEM517	28 VDC	12 VDC	940 mA	25 mA	590 mA	D
CEM518	28 VDC	15 VDC	800 mA	30 mA	620 mA	D
CEM519	28 VDC	± 12 VDC	± 525 mA	50 mA	650 mA	D
CEM520	28 VDC	± 15 VDC	± 412 mA	50 mA	650 mA	D
CEM521	48 VDC	5 VDC	2000 mA	20 mA	350 mA	D
CEM522	48 VDC	12 VDC	940 mA	25 mA	350 mA	D
CEM523	48 VDC	15 VDC	800 mA	25 mA	360 mA	D
CEM524	48 VDC	± 12 VDC	± 525 mA	30 mA	390 mA	D
CEM525	48 VDC	± 15 VDC	± 412 mA	40 mA	380 mA	D

CASE D



ALL DIMENSIONS IN INCHES (MM)  
\* NP (NO PIN) ON SINGLE OUTPUT MODELS

### SPECIFICATIONS

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

### INPUT SPECIFICATIONS

Input Voltage Range ..... See Table  
Input Filter ..... Pi Network

### OUTPUT SPECIFICATIONS

Voltage Accuracy ..... ± 1.0% max.  
Voltage Balance, Dual Output ..... ± 0.5% max.  
Temperature Coefficient  
Single Output ..... ± 0.02%/°C  
Dual Output ..... ± 0.01%/°C  
Ripple and Noise, 20MHz BW  
Single Output ..... 50mV P-P max.  
Dual Output ..... 35mV P-P max.  
Short Circuit Protection ..... Short Term  
Line Regulation ..... 0.02%  
Load Regulation ..... 0.05%

### GENERAL SPECIFICATIONS

Efficiency ..... 60%  
Isolation Voltage ..... 500 VDC min.  
Isolation Capacitance ..... 100pF  
Isolation Resistance ..... 10<sup>9</sup> ohms  
Switching Frequency ..... 20kHz, min.  
Operating Temperature Range ..... - 25°C to + 71°C  
Storage Temperature Range ..... - 40°C to + 100°C  
EMI/RFI ..... Six-Sided Continuous Shield  
Dimensions ..... 3.5 x 2.5 x 0.88 inches  
(88.9 x 63.5 x 22.4mm)  
Case Material ..... Black Coated Copper with  
Non-Conductive Base

Input Voltage	60% FL	80% FL	100% FL
5V	4.4- 6.5V	4.5- 6.0V	4.65- 5.5V
12V	10.56-15.6V	10.8-14.4V	11.16-13.2V
24V	21.12-31.2V	21.6-28.8V	22.32-26.4V
28V	24.64-36.4V	25.2-33.6V	26.04-30.8V
48V	42.24-62.4V	43.2-57.6V	44.64-52.8V