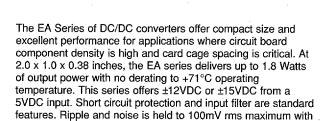
EA SERIES

Dual output

For new design-ins see the AFC5 Series Instead

- Short circuit protection
- Low profile 0.38 inch
- High reliability
- **■** Transformer isolated
- Single output operation permissible





2 YEAR WARRANTY

 $\pm 1.0\%$ line regulation and $\pm 0.5\%$ load regulation. The EA series offers 500VDC isolation between input and output with $1\times 10^{\circ}$ ohms minimum isolation resistance. The EA series is ideally suited for use in RS232 interfaces – or wherever it is desirable to develop a well isolated voltage from a 5V bus to drive analog circuitry.

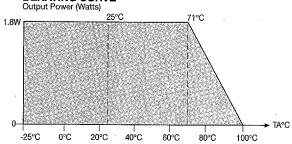
SPECIFICATION

ALL SPECIFICATIONS ARE TYPICAL AT NOMINAL INPUT, FULL LOAD AND 25°C UNLESS OTHERWISE STATED

OUTPUT SPECIFICATION	ONS		
Voltage accuracy	-Vout after warmup	±2%, max.	
Voltage balance	+Vout after warmup ±1%, m		
Line regulation	HL to LL ±1.		
Load regulation	FL to NL	±0.5%	
Ripple and noise	20MHz BW	100mV pk-pk, max 2mV rms, max.	
Transient response	FL to NL	1.0% error band, 25µs recovery	
Temperature coefficient	·	±0.03%/°C, max.	
Short circuit protection	+ or – output to common + to – output	Continuous automatic recovery 10s, max.	
INPUT SPECIFICATION	S		
Input voltage range	5VDC	4.65 to 5.5VDC	
Input filter	See Note 6	Balun	

GENERAL SPECIFICA	TIONS	
Efficiency	±12VDC ±15VDC	55% 60%
Isolation voltage	Input/output	500VDC, min.
Switching frequency	Fixed	40kHz
Case material	Non-con	ductive black plastic
Weight		28g (1oz)
MTBF	MIL-HDBK-217B	560,000 hours
ENVIRONMENTAL SPE	ECIFICATIONS	
Thermal performance	Operating ambient Non-operating amb. Case Derating, see curve Cooling	+95°C max.





Note

The same derating curve should be applied to the 12V output model with 1.44W maximum output power.

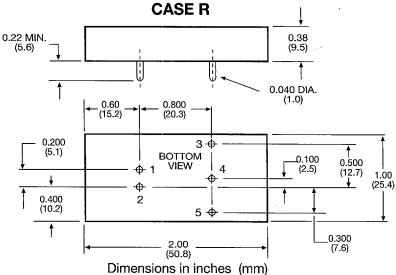
1.8 Watt Nominal input DC/DC converters

INPUT	OUTPUT	OUTPUT	INPUT	CECIOIENOV	REGUL	ATION (2)	MODEL
VOLTAGE	VOLTAGE	CURRENT	CURRENT (1)	EFFICIENCY	LINE (3)	LOAD (4)	NUMBER
5VDC	±12VDC	±60mA	520mA	55%	±1.0%	±0.5%	EA05D12/60R
5VDC	±15VDC	±60mA	600mA	60%	±1.0%	±0.5%	EA05D15/60R

Notes

- The no-load input current is 75mA.
- 2 Maximum.
- 3 Measured from high line to low line.
- 4 Measured from full load to no-load.
- 5 Standard specifications are conservative and can be optimized for specific applications. In particular, converter start-up at lower than specified temperature, wider input voltage range and output voltage adjustment are all relatively simple modifications to the standard product. Consult factory for details.
- 6 Fixed frequency design provides for easier input filtering and better noise performance.

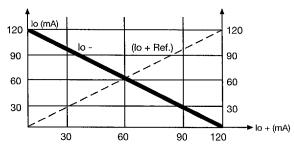
PIN CONNECTIONS		
PIN NUMBER	DUAL OUTPUT	
1	+ Input	
2	- Input	
3	+ Output	
4	Common	
5	- Output	



Note

Single-ended or unbalanced operation is permissible per the following graph:

SINGLE ENDED OR UNBALANCED OPERATION



For single-ended operation with capacitive loads use a reverse-biased diode (IN914, IN4148, IN4001, etc.) across each output to output common, i.e., any combination of +lo and –lo which does not exceed a total of 120mA. Output noise and load regulation will degrade linearly to 4mV rms, and 1.0% with single-ended operation.



Call Toll-Free: (East) 800-733-9288 · (West) 800-769-7274