



## .8 to 3 Watts

**Dual Outputs** 

- Ultra low noise
- Pi input filter
- Continuous short circuit protection with auto restart
- Regulated outputs

# Specifications

### **INPUT**

Voltage Range

4.5 - 5.5 Vdc 10.8 - 15 Vdc 21.6 - 30 Vdc

42 - 56 Vdc Reflected Ripple Less than 19

Less than 1% Vin (max)

### OUTPUT

Voltage Tolerance ± 1%
Ripple and Noise 5mV pk-pk
Short Circuit Protection Current Limit
Temperature Coefficient 0.02% / °C

### **GENERAL**

Regulation:

Line 0.02%
Load 0.02%
Efficiency 65% (typ)
I/O Isolation 300 Vdc
Switching Frequency 6 to 20khz

### **ENVIRONMENTAL**

Operating Temperature -25°C to +71°C No Derating
Storage Temperature -25°C to +105°C
Cooling Free-air Convection

All specifications are typical at nominal line and full load at 25°C unless otherwise noted and are subject to change without notice.

he FC Series are ultra-low noise, high performance DC/DC converters that are packaged in low profile (0.4 inch high) cases. Essential quality performance features are designed and built-in. A high performance Pi input filter minimizes input reflected ripple, while 5-sided electrostatic shielding and tape-wound toroids, rather than pot cores, minimize radiated EMI. Advanced circuit design techniques reduce conducted output noise in the form of current spikes, to an extremely low level.

### **Applications**

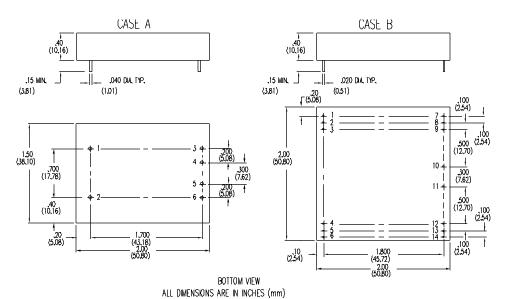
The FC Series converters are ideal for noise-sensitive analog and digital applications having high component density and stringent performance requirements. For ease of use and system reliability, all FC Series models feature I/O isolated outputs which are overcurrent protected by a self-resetting current limit circuit.



# FC Series Ordering Information

Input Voltage Range	Output Voltage	Output Current	Case	Model Number
4.5-5.5 Vdc 10.8-15.0 Vdc 21.6-30.0 Vdc 42.0-56.0 Vdc	±12 Vdc ±12 Vdc ±12 Vdc ±12 Vdc	±35mA ±35mA ±35mA ±35mA	A A A	FC22-007-05 FC22-007-12 FC22-007-24 FC22-007-48
4.5-5.5 Vdc 10.8-15.0 Vdc 21.6-30.0 Vdc 42.0-56.0 Vdc	±12 Vdc ±12 Vdc ±12 Vdc ±12 Vdc	±125mA ±125mA ±125mA ±125mA	B B B B	FC22-025-05 FC22-025-12 FC22-025-24 FC22-025-48
4.5-5.5 Vdc 10.8-15.0 Vdc 21.6-30.0 Vdc 42.0-56.0 Vdc	±15 Vdc ±15 Vdc ±15 Vdc ±15 Vdc	±30mA ±30mA ±30mA	A A A	FC23-006-05 FC23-006-12 FC23-006-24 FC23-006-48
4.5-5.5 Vdc 10.8-15.0 Vdc 21.6-30.0 Vdc 42.0-56.0 Vdc	±15 Vdc ±15 Vdc ±15 Vdc ±15 Vdc	±100mA ±100mA ±100mA ±100mA	B B B	FC23-020-05 FC23-020-12 FC23-020-24 FC23-020-48

## **Dimensions and Connections**



### **PIN CONNECTIONS**

<b>Dual Output</b>	Case A	Case B
+Input	1	1-3
-Input	2	4-6
+Output	3	7-9
Common	4 ,5	10,11
-Ounut	6	12-14

### NOTES:

- 1. Ripple measured with a 3.3 mf tantalum capacitor across each output.
- 2. Metal case (shield) connected to output common

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