

5C Series

15W DC-DC Converters

Features

- 15W Isolation Output
- 4:1 Input Range
- Six-Sided Shield
- Remote On/Off Control
- Efficiency to 82%

Model Number	Input Voltage	Output Voltage	Output Current	Input Current		% Efficiency	Case
				No Load	Full Load		
5C-01	9-36 VDC	5 VDC	3000 mA	15 mA	810 mA	77	C
5C-02		12 VDC	1250 mA	15 mA	780 mA	80	
5C-03		15 VDC	1000 mA	15 mA	780 mA	80	
5C-04		±5 VDC	±1500 mA	20 mA	810 mA	77	
5C-05		±12 VDC	±625 mA	20 mA	780 mA	80	
5C-06		±15 VDC	±500 mA	20 mA	780 mA	80	
5C-07		5/±12 VDC	1500/±310 mA	20 mA	780 mA	80	
5C-08		5/±15 VDC	1500/±250 mA	20 mA	780 mA	80	
5C-09		3.3 VDC	3000 mA	15 mA	545 mA	76	
5C-11	18-72 VDC	5 VDC	3000 mA	10 mA	410 mA	77	C
5C-12		12 VDC	1250 mA	10 mA	390 mA	80	
5C-13		15 VDC	1000 mA	10 mA	390 mA	80	
5C-14		±5 VDC	±1500 mA	15 mA	400 mA	79	
5C-15		±12 VDC	±625 mA	15 mA	380 mA	82	
5C-16		±15 VDC	±500 mA	15 mA	380 mA	82	
5C-17		5/±12 VDC	1500/±310 mA	15 mA	380 mA	82	
5C-18		5/±15 VDC	1500/±250 mA	15 mA	380 mA	82	
5C-19		3.3 VDC	3000 mA	10 mA	270 mA	76	

Note: Nominal Input Voltage 24 or 48VDC

Specifications

Input Specifications:

Input Voltage Range.....24V.....9-36V
 48V.....18-72V
 Input Filter.....Pi Type

Output Specifications:

Voltage Accuracy
 Single output.....+/- 1.0 % max.
 Daul + output.....+/- 1.0 % max.
 Daul - output.....+/- 3.0 % max.
 Triple, 5V.....+/- 2.0 % max.
 12V/15V.....+/- 3.0 % max.
 Voltage Balance (Dual).....+/- 1.0 % max.
 Transient Response
 Single 25% Step Load Change.....<500i sec.
 Dual FL. 1/2L+/-1% Error Band.....<500i sec.
 Ripple & Noise, 20 MHz BW..... 10mV RMS max.
 75 mV p-p max.
 Temperature Coefficient..... +/- 0.02 % /°C max.
 Short Circuit Protection.....Continuous
 Line Regulation ¹ Single / Dual Output.....+/- 0.2 % max.
 Triple.....+/- 1.0% max.
 Load Regulation ² Single / Dual Output.....+/- 1.0 % max.
 Triple.....+/- 5.0 % max.

General Specifications :

Efficiency.....see table
 Isolation Resistance.....100Mohm
 Switching Frequency.....300 KHz, min.

Case Grouding.....Capacity coupled to input
 Operating Temperature Range.....-25° C ~ +71° C
 Case Temperature.....100° C max.
 Cooling.....free air convection
 Storage Temperature Range.....-40° C ~ +100° C
 Isolation Voltage.....500VDC min.
 EMI/RFI.....Six-Sided Continuous Shield
 Dimensions.....2" x 2" x 0.4 "(50.8 x 50.8 x 10.2 mm)
 Case Material.....Black Coated Copper with Non-conducted base

Note:

1. Measured from high line to low line
2. measured from full load to ¼load

Triple output loading table			
Ouput (pin no.)	Voltage (V)	Amperes	
		Min. (2)	Nom.
7	5	0.25	1.5
8 & 5	+12 or -12	0.1	0.31
8 & 5	+15 or -15	0.1	0.25

Note:

1. Maximum total power from all outputs is limited to 15W but no output should be allowed to exceed its maximum current
2. Minmum current on each output is required to maintain specified regulation

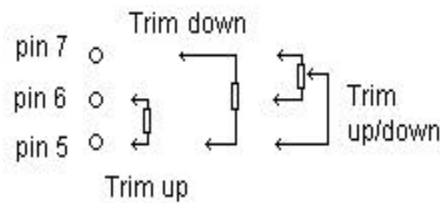
Outline Information and Pin-out

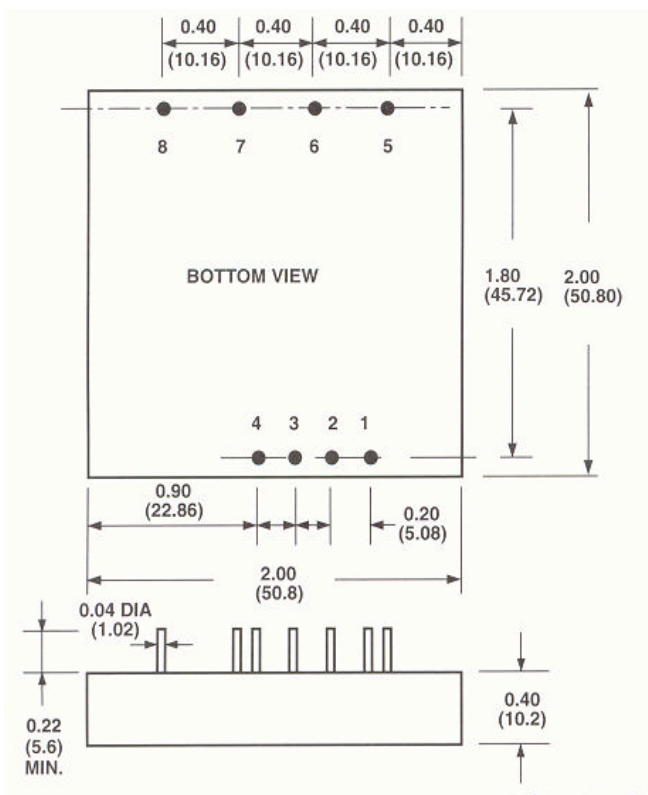
Pin Connection			
Pin	Single	Dual	Triple
1	Remote On/Off Control		
2	No pin	No pin	No pin
3	-Vin	-Vin	-Vin
4	+Vin	+Vin	+Vin
5	Trim	Trim	-Aux.out
6	-Vout	-Vout	Common
7	+Vout	Common	+5Vout
8	No pin	+Vout	+Aux.out

Remote On/Off Control	
Logic compatibility	CMOS or Open collector TTL
Ec-On	>5.5 Vdc or open circuit
Ec-Off	<1.8 Vdc
Shutdown Idle current	10mA
Input resistance	100K ohms (Ein 0Vdc to 9Vdc)
Control common	Referenced to Input minus

External Output Trimming

Output may optionally be externally trimmed (+/-10%) with a fixed resistor or an external trimpot as shown.





The information and specifications contained in this brief are believed to be accurate and reliable at the time of publication. Specifications are subject to change without notice. Refer to product specification sheet for performance characteristics and application guidelines.