C SERIES

Triple output

- **■** Low noise
- Six-sided continuous shield
- Double fault protected
- Linear regulation
- High reliability
- Pi input filter



The C series consists of a family of triple output DC/DC converters that provide 10 watts of isolated, well regulated output power. Models are available with outputs of either ±12V or ±15V at 165 mA and 5V at 750 mA. The units offer better than 500VDC isolation and line and load regulation better than 1.0%. All models are encapsulated in 3.0 x 2.56 x 0.75 inches metal cases designed for optimum noise containment. EMI/RFI protection is provided by a six-sided continuous package shield

and transformer shielding. A Pi-type input filter is included to minimize reflected input ripple current. Fault protection features include short-term constant current limiting on all outputs, with long-term thermal shutdown and overvoltage protection on 5 volt outputs.

SPECIFICATION

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

OUTPUT SPECIFICATI	ONS				
Voltage accuracy	5V output Dual, + output	±4.0%, max. ±1.0%, max.			
Voltage balance	– Output	±1.0%, max.			
Load regulation	5V output, FL-NL Dual output, FL-NL	±1%, max. ±0.1%, max.			
Line regulation	5V output, HL-LL Dual output, HL-LL	±1%, max. ±0.1%, max.			
Ripple and noise 20MHz BW	5V output	2mV rms, max. 40mV pk-pk, max.			
	Dual output	1mV rms, max. 40mV pk-pk, max.			
Temperature coefficient	5V output Dual output	±0.5%/°C, max. ±0.05%/°C, max.			
Voltage stability 24 hours	5V output Dual output	±0.2%, max. ±0.05%, max.			
Transient recovery time ±0.5% error band	FL-NL	250µsec., max.			
Short circuit protection	Output to common	Continuous			
Overvoltage protection 5V output	Internal clamp	6.8VDC set			
INPUT SPECIFICATION	S				
Input voltage range	Input voltage range See table on facing page				
Input filter		Pi network			

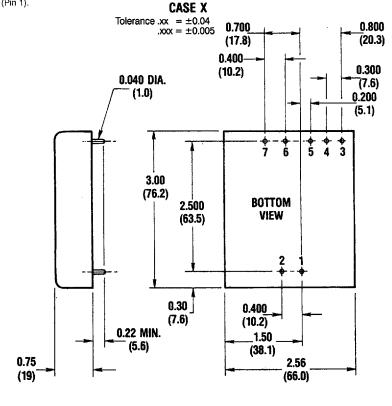
GENERAL SPECIFICATIONS				
Efficiency	See table			
Isolation voltage	500VDC, min.			
Isolation resistance	10 ⁹ ohms, min.			
Switching frequency	20kHz			
EMI/RFI	Six-sided continuous shield Transformer shield			
ENVIRONMENTAL SPECIFICATION	DNS			
Operating temperature range	− 25°C to 71°C			
Derating	None			
Storage temperature range	- 40°C to 85°C			
Case temp. rise above ambient	5°C/watt diss.			
Overtemperature protection	Thermal shutdown Automatic restart			
Cooling	Free-air convection			

10 Watt DC/DC converters

INPUT	INPUT VOLTAGE	OUTPUT	OUTPUT	INPUT C	URRENT	%	CASE	MODEL
VOLTAGE	RANGE	VOLTAGE	CURRENT	NO LOAD	FULL LOAD	EFF		NUMBER
5VDC	4.5 – 5.5	±12/5VDC	±165/750mA	500mA	3300mA	47	Х	C05T12/165X
5VDC	4.5 – 5.5	±15/5VDC	±165/750mA	500mA	3300mA	50	Х	C05T15/165X
12VDC	10.0 – 14.0	±12/5VDC	±165/750mA	85mA	1300mA	47	Х	C12T12/165X
12VDC	10.0 – 14.0	±15/5VDC	±165/750mA	85mA	1350mA	50	Х	C12T15/165X
24VDC	20.0 – 28.0	±12/5VDC	±165/750mA	35mA	640mA	50	Х	C24T12/165X
24VDC	20.0 – 28.0	±12/5VDC	±165/750mA	35mA	670mA	54	Х	C24T15/165X
28VDC	24.0 – 32.0	±12/5VDC	±165/750mA	35mA	550mA	50	Х	C28T12/165X
28VDC	24.0 – 32.0	±12/5VDC	±165/750mA	35mA	570mA	54	Х	C28T15/165X
48VDC	42.0 - 56.0	±12/5VDC	±165/750mA	25mA	315mA	51	Х	C48T12/165X
48VDC	42.0 – 56.0	±12/5VDC	±165/750mA	25mA	335mA	54	Х	C48T15/165X

1 On 48VDC input models, the case is connected to + input (Pin 1). 2 Dimensions are inches and (mm).

PIN CONNECTIONS		
PIN NUMBER	FUNCTION	
1	+ Input	
2	– Input	
3	+ Auxiliary Output	
4	Auxiliary Common	
5	- Auxiliary Output	
6	+5V	
7	+5V Return	





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