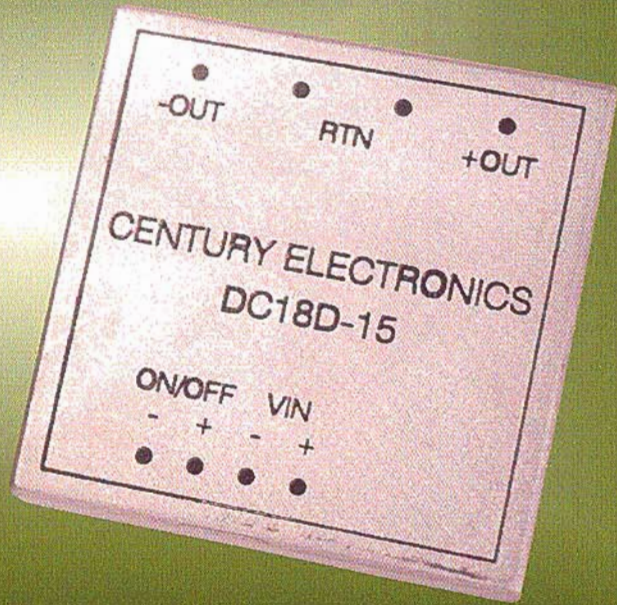
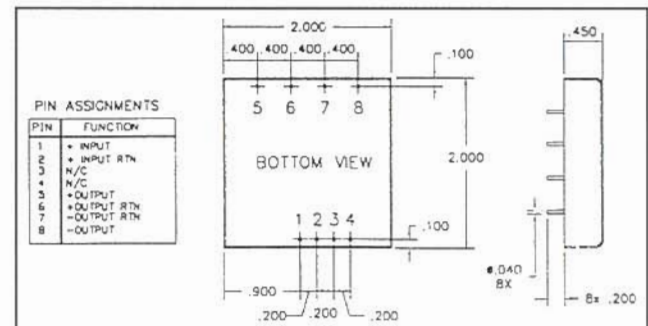


The "NEW" Standard of High Reliability / Low Cost DC/DC Modules



DC 18-15 DUAL OUTPUT 18 WATTS DC TO DC

- Wide input voltage range 200 to 320 VDC
- Operating temperature: 71°C Wide
- Input Voltage Range 16 to 50 VDC
- Operating Temperature: -40°C to 100°C
- Low Output Ripple & Noise: 75mVp-p
- Input to Output, Transformer Isolation
- High MTBF TBD Hours
- 100% SMT
- 2" x 2" x 0.45" Industry Standard
- Input Reflection Current: 150mA
- Efficiency: 70%
- Over Current Protection
- Remote Inhibit, Each Output (Option)
- High Peak Power 30 W (One Second)
- EMI Filter to MIL-STD-46 1
- Density Over 10 W / Inch 3



CENTURY ELECTRONICS

DEDICATED TO HIGH RELIABILITY

5701 Lindero Canyon Road, 1-100
Westlake Village, California 91362
Website: www.centuryele.com

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Fax: (818)706-8226
E-mail: centuryele@aol.com

DC 18D-15

ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITIONS	MIN	TYPE	MAX	REMARKS
Operating Temperature	$I_o = .6 \text{ A}$	- 40 C		100 C	
Input Voltage	$I_o = .6 \text{ A}$	16 VDC	28 VDC	50 VDC	
Isolation	100 VDC		2000 MOh	10 MOhm	Input to Output
Line Regulation	$I_o = \text{Const}$		5 mV	10 mV	$I_o \text{ min} = .06\text{A}$
Load Regulation	$V_{in} = \text{Const}$		30 mV	50 mV	MAX 200mV @ $V_{in}, 20\text{V}$
Ripple & Noise	$I_o = .6 \text{ A}$		50 mV p-p	75 mVp-p	Output Ripple > 75mV
Over Current	$I_o = .6 \text{ A}$		1.1 A	1.3 A	Auto Recovery
Short Circuit	$I_o = .6 \text{ A}$		2.3 A	3.0 A	Output Voltage Drop
1 A Peak Current	$V_{in} = 28 \text{ V}$		40 mV	75 mV	
Efficiency	$V_{in} = 28 \text{ V}, I_o = .6 \text{ A}$		72%		.06A to .6A
Cross Regulation	$V_{in} = 28 \text{ V}$	70%	1 mV	75 Mv	
Drop In/Out	$I_o = .6 \text{ A}$		15V / 10V	16V / 12V	$T < 50\mu\text{Sec}$
Step Load Regulation	.3 A \leftrightarrow .6 A		30 mV	50 mV	
Turn-On Time	$V_{in} = 28 \text{ V}, I_o = .6 \text{ A}$		10 mSed	25 mSec	
Turn-On Overshoot	$V_{in} = 28 \text{ V}, I_o = .6 \text{ A}$		0	25 mV	Max 3 A @ $V_{in} = 16\text{V}$
Input Reflecting Current	$V_{in} = 28 \text{ V}, I_o = .6 \text{ A}$		120 mAp-p	150 mAp-p	$P_{in} = 1.6 \text{ W TYP}$
Idle Power Consumption	$V_{in} = 28 \text{ V}, I_o = 0$		50 mA	100 mA	

MILITARY SPECIFICATIONS

<i>Altitude:</i>	MIL-STD-810	<i>Inspection:</i>	MIL-Q-9858	<i>Soldering:</i>	ANSI-J-STD-001
<i>Design Guidelines :</i>	NAVMAT-P4855-1A	<i>Marking:</i>	MIL-I-45208	<i>Transformers:</i>	MIL-T-27
<i>EMI:</i>	MIL-STD-461/2	<i>Quality:</i>	NAVMAT-P4855-1A	<i>Vibration:</i>	MIL-STD-810
<i>Humidity:</i>	MIL-STD-810	<i>Reliability:</i>	MIL-HDBK-217	<i>Shock:</i>	MIL-S-901
<i>Input Transient:</i>	MIL-STD-704	<i>Shock:</i>	MIL-S-901	<i>Workmanship/solder:</i>	ANSI-J-STD-001

Century Electronics is a Custom, Semi-Custom and Standard Designer and Manufacturer of High Reliability Military, Aerospace, Industrial and Space Application Power Supplies and Converters. Century offers a complete line of MIL-Environment, Industrial, Space and Custom Power Supplies. We Invite Your Inquiry and Specifications Which Will Receive Immediate Attention.

All specifications subject to change without notice



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