

GENERAL INTRODUCTION:

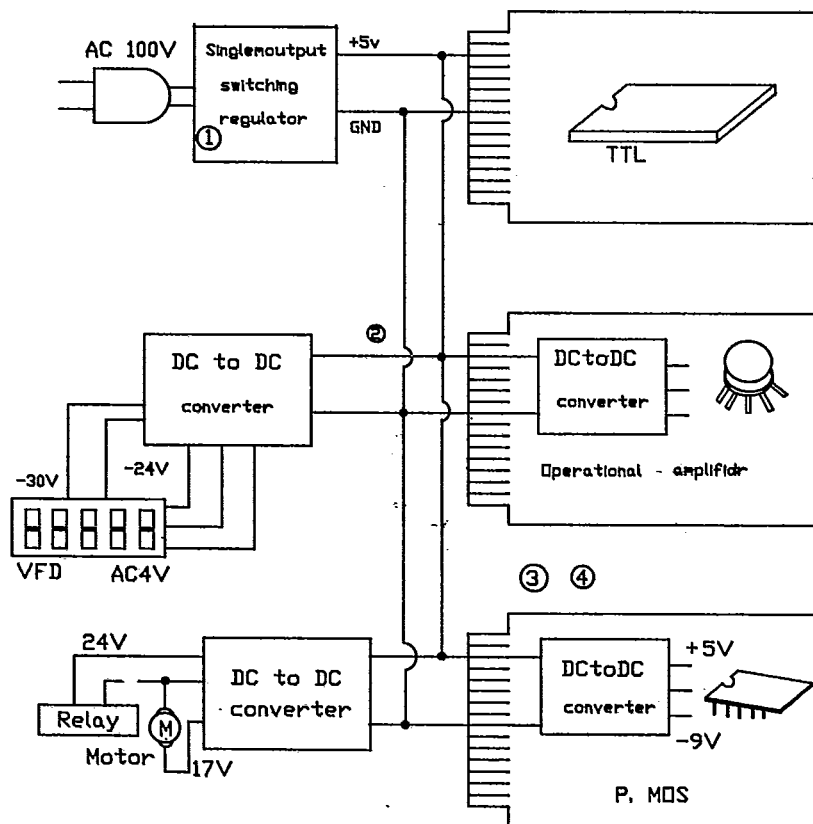
A DC-DC converter is designed to alter a DC voltage for more flexible application, to isolate the primary from external load and to eliminate ground-loop effects. The typical application is shown in Figure 1 wherein a single output is distributed to various loads through DC-DC converters hence produces following advantages:

1. The main power supply is highly simplified.
2. Wire connection is streamlined to prevent wiring error and to facilitate maintenance.
3. The interference between different circuits is minimized due to the independence of power sources.
4. The addition or modification of circuits become much easier.

FEATURES AND BENEFITS OF DELTA DC-DC CONVERTERS:

1. Input and output filters, including highly reliable tantalum capacitors to effectively reduce noise
2. Surface mounting technology to shrink size and enhance reliability
3. High isolation voltage up to 2000VDC
4. High reliability with MTBF over 900,000hrs
5. Wide selection of mechanical construction, including DIP package, board mounting types and metal case package that provides excellent shielding
6. All parts undergoes 100% burn-in and are tested both before and after burn-in

Figure 1. Typical application of DC-DC converters for equipments requiring multi-power supplies



R SERIES

2W REGULATED DIP TYPE

- * Single or dual regulated outputs
- * 24 pins DIP IC compatible configuration
- * Power rating up to 2 Watts
- * Isolation voltage of 500VDC minimum
- * Input voltage of 5 or 12VDC
- * Designed for analog application such as OP-AMP, A/D or D/A converters and for negative voltage bias application such as LAN transceiver chips

A. ELECTRICAL CHARACTERISTICS

All specifications are under +25°C, nominal line and full load unless otherwise noted.

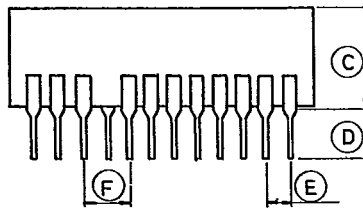
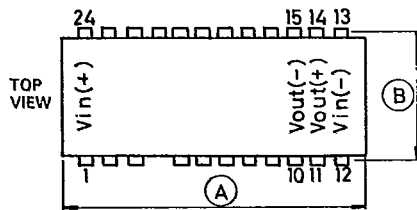
GENERAL SPECIFICATIONS:

EFFICIENCY.....60% (TYP)
 ISOLATION.....500VDC MIN.
 OPERATING TEMPERATURE.....-20°C TO +70°C
 STORAGE TEMPERATURE.....-40°C TO +100°C
 OPERATING FREQUENCY.....20KHz MIN.
 OUTPUT POWER.....UP TO 2 WATTS
 OUTPUT VOLTAGE TOLERANCE.....+/- 5%
 OUTPUT RIPPLE.....100 mVp-p (MAX)
 @ 20MHz BW

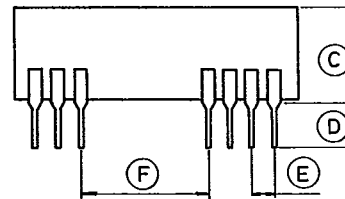
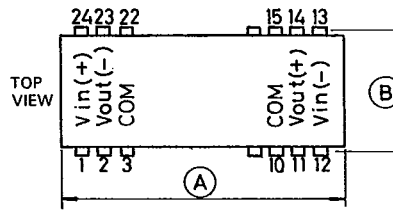
B. SELECTION GUIDE

MODEL	INPUT VOLTAGE(Vi)	OUTPUT VOLTAGE(Vo)	OUTPUT CURRENT(Io)	MECHANICAL CONSTRUCTION
DPS05R05	5 V	5 V	220mA	PC-1
DPS05R09	5 V	-9 V	200mA	PC-1
DPS05R12	5 V	12 V	160mA	PC-1
DPS05R15	5 V	15 V	100mA	PC-1
DPS05R18	5 V	18 V	80mA	PC-1
DPS05R24	5 V	24 V	60mA	PC-1
DPS12R05	12 V	5 V	220mA	PC-1
DPS12R09	12 V	-9 V	200mA	PC-1
DPS12R12	12 V	12 V	160mA	PC-1
DPS12R15	12 V	15 V	100mA	PC-1
DPS12R18	12 V	18 V	80mA	PC-1
DPS12R24	12 V	24 V	60mA	PC-1
DPD05R12	5 V	± 12 V	± 60mA	PC-2
DPD05R15	5 V	± 15 V	± 40mA	PC-2
DPD12R12	12 V	± 12 V	± 60mA	PC-2
DPD12R15	12 V	± 15 V	± 40mA	PC-2

C. MECHANICAL CONSTRUCTION



PC-1



PC-2

UNIT: INCH
 A: 1.34 MAX.
 B: 0.61
 C: 0.50 MAX.
 D: 0.14 MIN.
 E: 0.10 TYP.
 F: 0.20
 G: 0.80

C SERIES

2W REGULATED DIP TYPE WITH HIGH ISOLATION

VOLTAGE

- * Single regulated output
- * 24 pins DIP IC compatible configuration
- * Power rating up to 2 Watts
- * Isolation voltage of 2000VDC minimum
- * Input voltage of 5 or 12VDC
- * Designed for biasing OP-AMP, A/D or D/A converters, RAM/ROM and negative voltage bias application such as LAN transceiver chips

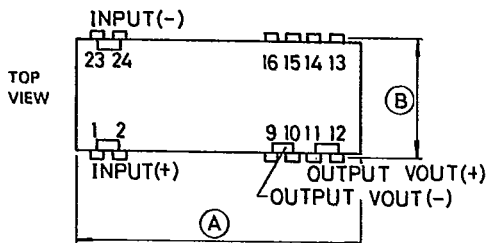
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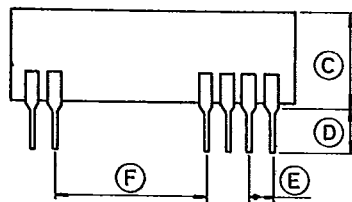
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 OUTPUT VOLTAGE TOLERANCE.....+/- 5%
 OUTPUT RIPPLE.....100 mVp-p (MAX)
 @ 20MHz BW

C. MECHANICAL CONSTRUCTION



- UNIT: INCH
 A: 1.34 MAX.
 B: 0.61
 C: 0.50 MAX.
 D: 0.14 MIN.
 E: 0.10 TYP.
 F: 0.20
 G: 0.80



PC-3

B. SELECTION GUIDE

MODEL	INPUT VOLTAGE(Vi)	OUTPUT VOLTAGE(Vo)	OUTPUT CURRENT(Io)	MECHANICAL CONSTRUCTION
DPS05C05	5 V	5 V	220mA	PC-3
DPS05C09	5 V	-9 V	200mA	PC-3
DPS05C12	5 V	12 V	160mA	PC-3
DPS05C15	5 V	15 V	100mA	PC-3
DPS05C18	5 V	18 V	80mA	PC-3
DPS05C24	5 V	24 V	60mA	PC-3
DPS12C05	12 V	5 V	220mA	PC-3
DPS12C09	12 V	-9 V	200mA	PC-3
DPS12C12	12 V	12 V	160mA	PC-3
DPS12C15	12 V	15 V	100mA	PC-3
DPS12C18	12 V	18 V	80mA	PC-3
DPS12C24	12 V	24 V	60mA	PC-3

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