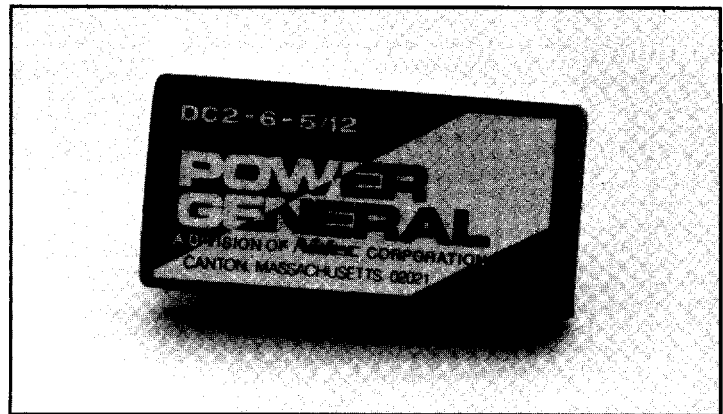


6W DUAL OUTPUT DC-DC CONVERTERS**FEATURES**

- Isolated Dual Outputs
- 500 VDC Input/Output Isolation
- 8W/in³ Power Density
- 80% Efficiency
- Pi Input Filter
- Short-Circuit Protection
- Compact 1" x 2" x 0.38" Package
- 5-Year Warranty
- **325,000 Hours Minimum MTBF**

**APPLICATIONS**

- Microprocessor-Based Systems
- Telecommunications Equipment
- Data Communications Equipment

All DC2-6 models have a copper case with six-sided shielding and are encapsulated with a flame-retardant potting material.

GENERAL SPECIFICATIONS

DC INPUT VOLTAGE	See voltage/current rating chart.
INPUT VOLTAGE TOLERANCE	±10 percent.
INPUT CURRENT	See voltage/current rating chart.
EMI FILTER	Pi input filter, standard.
DC OUTPUT	See voltage/current rating chart.
OUTPUT VOLTAGE TOLERANCE	±3 percent (5.0V input, full load conditions).
CONTINUOUS OUTPUT POWER	6 watts, maximum.
EFFICIENCY	80 percent.
SHORT-CIRCUIT PROTECTION	30 seconds. For longer protection, an external 2.0A/125V fuse may be used.
NOISE & RIPPLE	100 mV _{pp} , maximum.
LINE REGULATION	Proportional to input.
LOAD REGULATION	See graph.
ISOLATION VOLTAGE	500 VDC, input to ground.
ISOLATION CAPACITANCE	100 pF, typical.
FREQUENCY OF OPERATION	50 kHz.

ENVIRONMENTAL OPERATING CHARACTERISTICS

TEMPERATURE RANGE	-25°C to +70°C, no derating.
TEMPERATURE COEFFICIENT	±0.02 percent/°C.
COOLING	Free-air convection.
RELATIVE HUMIDITY	0 to 95 percent, non-condensing.
ALTITUDE	0 to 10,000 feet.

STORAGE CHARACTERISTICS

TEMPERATURE RANGE	-40°C to +100°C.
RELATIVE HUMIDITY	0 to 95 percent, non-condensing.

RELIABILITY

MEAN TIME BETWEEN FAILURES	>325,000 hours, per MIL-HDBK 217E Parts Stress Method. Ground benign, T _A =+25°C.)
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DC2-6 SERIES

NIDEC CORP/ PWR GENL DIV

48E D

6610921 0000951 3

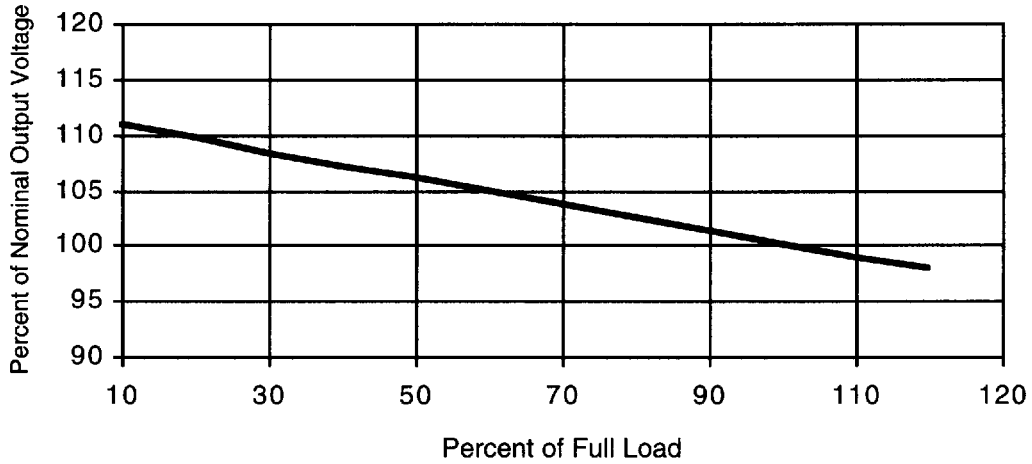
B-15-11

Model Number	DC Input Voltage			Input Current		Max. Reflected Ripple (mA pp)	DC Output Voltage (V)	Output Current (mA)
	Min. (V)	Nom. (V)	Max. (V)	No Load (mA)	Full Load (mA)			
	DC2-6-5/12	4.5	5.0	5.5	95	1500	10	±12
DC2-6-5/15	4.5	5.0	5.5	95	1500	10	±15	200
DC2-6-5/18	4.5	5.0	5.5	100	1500	10	±18	165

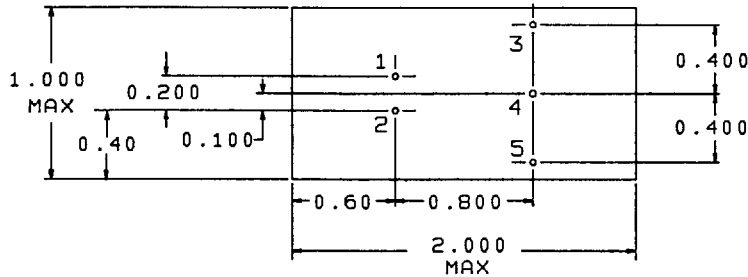
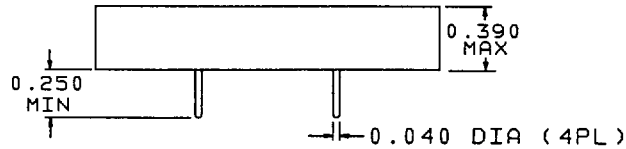
Notes:

1. All measurements are at nominal input, full load and +25°C, unless otherwise specified.

OUTPUT VOLTAGE AS A FUNCTION OF LOAD CONDITIONS



MECHANICAL OUTLINE AND PIN CONFIGURATION



PIN-OUT

Pin	Designation
1	+V IN
2	-V IN
3	+V OUT
4	COMMON
5	-V OUT

BOTTOM VIEW

Notes:

1. Dimensions shown are in inches.
2. Tolerance = 0.00 ±0.02.
0.000 ±0.005.
3. Module weight = 1.5 oz (0.043 kg).