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TECHNOLOGY GROUP

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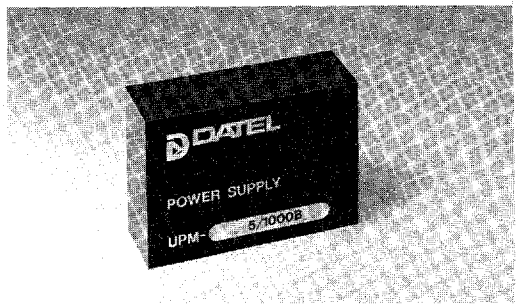
Find the *Murata / Datel UPM-5/1000B* at our website: *Click HERE*

Line Powered
+5V dc Output Power Modules

T-57-05

FEATURES

- **Operated from line voltage (115 VAC ±10%, 60-440 Hz)**
- **Fully regulated**
- **High accuracy (±1%)**
- **Current limiting short circuit protection**
- **Isolated to 1500 VAC**
- **Wide operating temperature (-25 °C to +71 °C without derating)**
- **Very low output ripple (1mV, maximum)**
- **Output current to 2 Amps at 5V dc**
- **Delivery from stock**

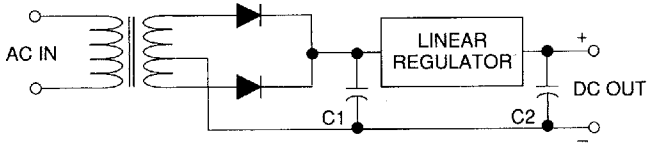


GENERAL DESCRIPTION

The UPM-5 Series of line operated power modules are high performance dc supplies capable of providing a fully regulated +5 V dc output at currents from 250 mA to 2 Amps. Their compact size (3.5" x 2.5" x 0.875"), modular design, and ability to be socketed (socket # MS-7) make them ideal for PC board mount applications.

AC input-to-dc output isolation is rated at 1500 VRMS with isolation resistance of 100 Megohms. Four different output ratings (250 mA, 500 mA, 1.0A, and 2.0A) from five different supplies allows you to match your application with the supply that fits rather than settling for an "almost right" choice. Temperature coefficients of 0.02% per °C (maximum) combined with an operating temperature range of -25 °C to +71 °C means accurate, trouble-free operation over prolonged periods. Also, every UPM-5 Series power module has #4-40 x 0.15 deep threaded inserts (2 each) for easy heat sink mounting or for mounting the supply to a variety of surfaces. The UPM-5 Series has excellent output voltage regulation with output ripple limited to 1 mV, maximum. Transient recovery time is 50 µSec (maximum) with current limiting short circuit protection to ensure safe operation for your other circuits.

Case material is phenolic and packaging/pinout is compatible with most other industry standard AC-to-dc supplies making them ideal as the first or second source drop-in.



APPLICATIONS

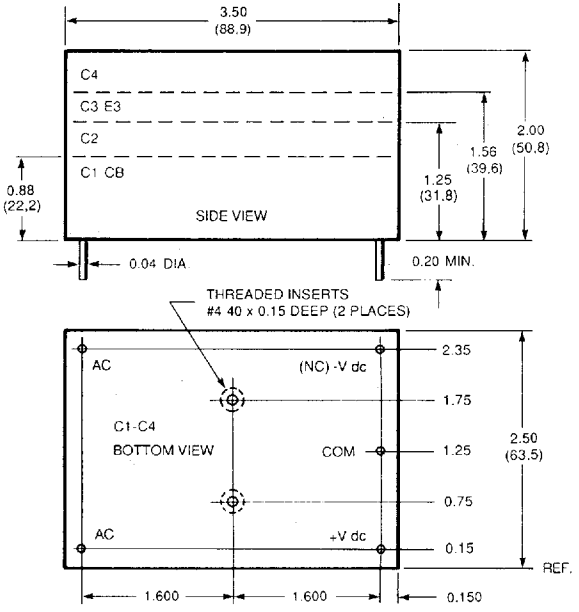
- **Telecommunications Equipment**
- **Local Power Distribution Systems**
- **PC Board Subsystems**
- **Bench Top Instrumentation**
- **Process Instrumentation**
- **Laboratory Equipment**
- **Computer Controlled Equipment**

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SPECIFICATIONS

	+5V dc OUTPUT MODELS				
	UPM-5/250	**UPM-5/500**	**UPM-5/1000**	**UPM-5/1000B**	**UPM-5/2000**
Output Voltage	5V dc	5V dc	5V dc	5V dc	5V dc
Output Current	250 mA	500 mA	1000 mA	1000 mA	2000 mA
Line Regulation	0.1%	0.1%	0.1%	0.25%	0.1%
Load Regulation	0.05%	0.05%	0.05%	0.25%	0.05%
Output Accuracy	±1%	±1%	±1%	±2%	±1%
Output Impedance (Ohms)	0.05	0.05	0.01	0.01	0.005
Weight	14 ounces (397 grams)	14 ounces (397 grams)	18 ounces (510 grams)	18 ounces (510 grams)	24 ounces (680 grams)
Case Size	C1	C1	C2	C2	C3

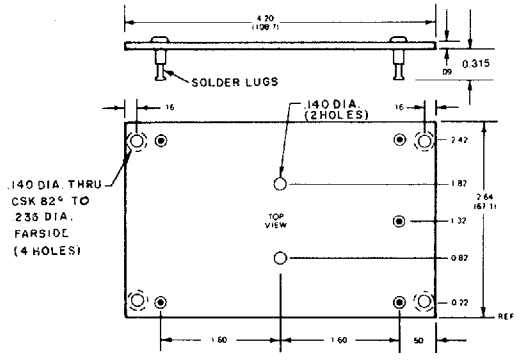
MECHANICAL DIMENSIONS AND I/O CONNECTIONS



GENERAL SPECIFICATIONS (at 25 °C)

Voltage Input ..... 103.5 to 126.5 VAC
60 to 440 Hz
Temperature Coefficient ..... 0.02% per
Output Ripple, maximum ..... 1 mV RMS
Transient Recovery Time, maximum ... 50 µSec
Isolation Resistance, minimum ..... 100 Megohms
Isolation Capacitance, maximum ..... 250 pF
Breakdown Voltage, minimum ..... 1500 VAC
Operating Temperature ..... -25 °C to +71°C.
(No Derating)
Storage Temperature ..... -25 °C to +85°C
Case Material ..... Phenolic
Module Size
UPM-5/250 ..... 3.5" x 2.5" x 0.88"
(88.9 x 63.5 x 22.2)
UPM-5/ 500 ..... 3.5" x 2.5" x 0.88"
(88.9 x 63.5 x 22.2)
UPM-5/1000 ..... 3.5" x 2.5" x 1.25"
(88.9 x 63.5 x 31.8)
UPM-55/1000B ..... 3.5" x 2.5" x 1.25"
(88.9 x 63.5 x 31.8)
UPM-5/2000 ..... 3.5" x 2.5" x 1.56"
(88.9 x 63.5 x 39.6)

SOCKET MS-7



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