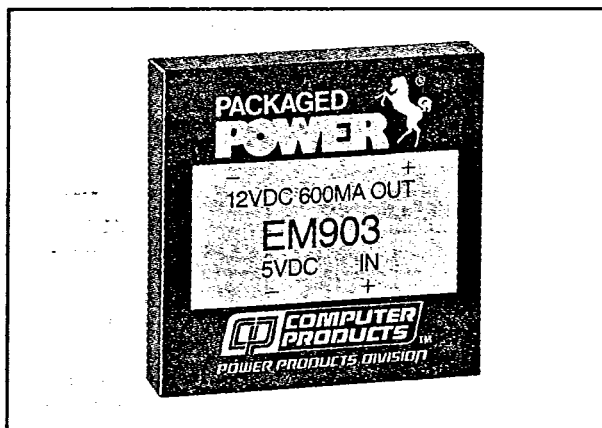




EM900 SERIES

Single and Dual Output

- Unregulated Outputs
- Economy Models
- 500 VDC Isolation
- Pi Input Filter
- Short-Circuit Protected
- 75% Efficiency

Power Products' EM900 Series consists of ten low-cost, general purpose DC/DC converters that efficiently deliver 5 to 9 watts total power from a $2 \times 2 \times 0.4$ inches package. Through careful attention to design, these economy modules achieve 75% typical efficiencies. The EM Series is available in standard and alternate pin-outs, for easy second-sourcing. All models feature continuous output short-circuit protection plus Pi input filters to minimize input reflected ripple. The units require no derating from -25°C to $+71^{\circ}\text{C}$. Other pertinent specifications include: line regulation, 1.2% change V_{out} per 1.0% change V_{in} ; load regulation, 8% change in V_{out} from 100% to 20% change in load; output voltage accuracy, $\pm 3.0\%$; ripple and noise, 100 mV P-P; isolation, 500 VDC; $\pm 10\%$ input voltage range.

STOCKED BY YOUR LOCAL DISTRIBUTOR
See list on pages 175 & 176



(305) 974-2442

SPECIFICATIONS

All Specifications Typical at Nominal Line, Full Load, and 25°C Unless Otherwise Noted.

OUTPUT SPECIFICATIONS

Voltage Accuracy $\pm 3.0\%$, max.
Ripple and Noise, 20 MHz BW ... 100 mV P-P, max.
Short Circuit Protection Continuous

INPUT SPECIFICATIONS

Input Voltage Range
5 VDC Input Models 4.5 VDC-5.5 VDC
12 VDC Input Models 10.8 VDC-13.2 VDC
Reflected Ripple Current, 20 MHz BW .. 75 mA P-P
Input Filter Pi Network

GENERAL SPECIFICATIONS

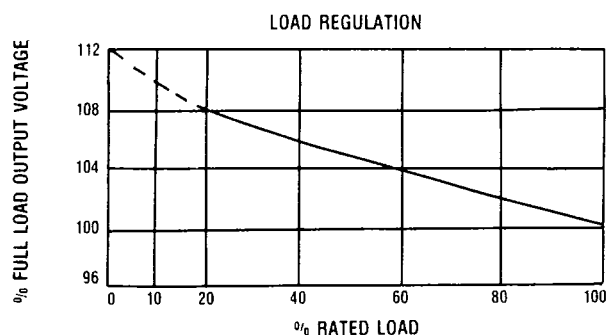
Efficiency 75%
Isolation Voltage 500 VDC, min.
Isolation Capacitance 180 pF
Isolation Resistance 10^8 ohms
Switching Frequency 20 kHz, min.

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range ... -25°C to $+71^{\circ}\text{C}$
Derating None
Storage Temperature Range -40°C to 105°C
Humidity, Non-Condensing 20% to 95% RH
Cooling Free Air Convection

PHYSICAL SPECIFICATIONS

Weight 2 oz. (57 grams)
Case Material Non-Conductive Black Plastic
Mating Sockets, Case G MS038-0



TWO-YEAR WARRANTY



T-57-11

NOTES: 1. Line regulation is per 1.0% change in input voltage. Load regulation is for load change from 100% to 20%.
2. Alternate pin-out version, if available, is designated by suffix letter "S". For example, EM901S, EM951S, etc. See case drawing.

