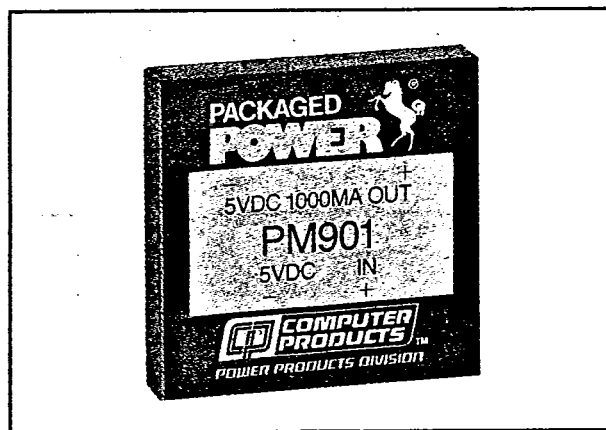


T-57-11



PM900 SERIES

Single and Dual Output

- High Performance
- 65% Efficiency
- Pi Input Filter
- Six-Sided Continuous Shield
- No Derating
- Short Circuit Protection

The PM900 Series of 5 and 6 watt DC/DC converters is a broad line of high-performance modules with many important features and specifications as standard. All models contain Pi-type input filters to minimize reflected ripple current, plus six-sided continuous shielding for EMI/RFI protection. They are packaged in low-profile $2.0 \times 2.0 \times 0.40$ inch cases with standard and two alternate pin-outs designed for direct PC card mounting. The units also feature output current limiting short-circuit protection and input/output isolation of 500 VDC. Other pertinent specifications include: efficiency, 65%; line regulation, $\pm 0.02\%$; load regulation, $\pm 0.04\%$ for single output models and $\pm 0.02\%$ for dual output models; ripple and noise, 10 mV P-P for single output models and 6 mV P-P for dual output models; and output voltage accuracy within $\pm 1.0\%$.

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 $\pm 1.0\%$, max.
 Voltage Balance, Dual Output $\pm 0.5\%$, max.
 Temperature Coefficient
 Single Output $\pm 0.02\%/^{\circ}\text{C}$
 Dual Output $\pm 0.01\%/^{\circ}\text{C}$
 Ripple and Noise, 20 MHz BW
 Single Output 10 mV, Typ 50 mV P-P, max.
 Dual Output 6 mV, Typ 35 mV P-P, max.
 Transient Recovery Time to 0.1% of Final Value
 NL-FL, All Outputs 10 μsec .
 FL-NL, Single Output 200 μsec .
 FL-NL, Dual Output 20 μsec .
 Warm-Up Drift, 50% Load
 Single Output $\pm 0.4\%$, max.
 Dual Output $\pm 0.2\%$, max.
 Short Circuit Protection Current Limited

INPUT SPECIFICATIONS

Input Voltage Range See Table Below
 Input Filter Pi Network

GENERAL SPECIFICATIONS

Efficiency, Single Output 61%, min.
 Dual Output 62%, min.
 Isolation Voltage 500 VDC, min.
 Isolation Capacitance 80 pF
 Isolation Resistance 10^9 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 $+125^{\circ}\text{C}$
 Humidity, Non-Condensing 20% to 95% RH
 Cooling Free-Air Convection
 EMI/RFI Six-Sided Continuous Shield

PHYSICAL SPECIFICATIONS

Weight 2 oz. (57 grams)
 Case Material Non-Conductive Black Plastic
 Mating Socket, Standard Models MS038-0
 Suffix "A" Models MS040-0
 Shielding Connection
 Single Output To Neg. Output
 Dual Output To Output Common

Input Voltage	60% FL	80% FL	100% FL
5V	4.4- 6.5V	4.5- 6.0V	4.65- 5.5V
12V	10.56-15.6V	10.8-14.4V	11.16-13.2V
24V	21.12-31.2V	21.6-28.8V	22.32-26.4V
28V	24.64-36.4V	25.2-33.6V	26.04-30.8V
48V	42.24-62.4V	43.2-57.6V	44.64-52.8V

TWO-YEAR WARRANTY

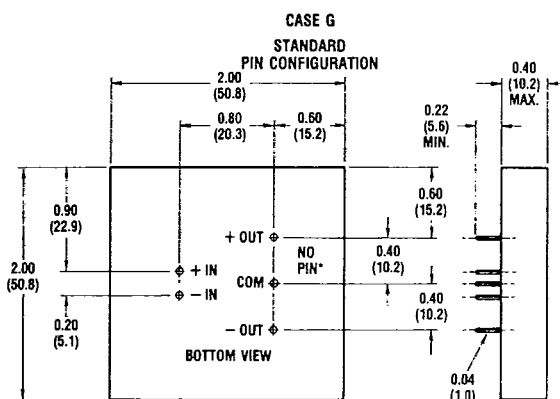


5 and 6 Watt DC/DC Converters

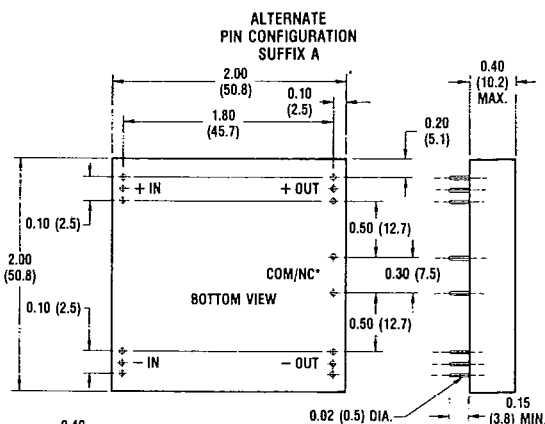
T-57-11

INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		REFLECTED RIPPLE CURRENT, MAX.	REGULATION		ALT ¹ PIN OUT	CASE	MODEL NUMBER
			NO LOAD	FULL LOAD		LINE	LOAD			
5 VDC	5 VDC	1000 mA	125 mA	1540 mA	54 mA P-P	±0.02%	±0.04%	A,B	G	PM901
5 VDC	12 VDC	470 mA	140 mA	1735 mA	61 mA P-P	±0.02%	±0.04%	A,B	G	PM903
5 VDC	15 VDC	400 mA	150 mA	1845 mA	64 mA P-P	±0.02%	±0.04%	B	G	PM904
5 VDC	±12 VDC	±230 mA	130 mA	1650 mA	58 mA P-P	±0.02%	±0.02%	A,B	G	PM951
5 VDC	±15 VDC	±190 mA	135 mA	1700 mA	60 mA P-P	±0.02%	±0.02%	A,B	G	PM952
12 VDC	5 VDC	1000 mA	50 mA	640 mA	22 mA P-P	±0.02%	±0.04%	A,B	G	PM911
12 VDC	12 VDC	470 mA	60 mA	725 mA	26 mA P-P	±0.02%	±0.04%	B	G	PM913
12 VDC	15 VDC	400 mA	60 mA	770 mA	27 mA P-P	±0.02%	±0.04%	B	G	PM914
12 VDC	±12 VDC	±230 mA	55 mA	690 mA	24 mA P-P	±0.02%	±0.02%	A,B	G	PM961
12 VDC	±15 VDC	±190 mA	55 mA	710 mA	25 mA P-P	±0.02%	±0.02%	A,B	G	PM962
24 VDC	5 VDC	1000 mA	25 mA	320 mA	22 mA P-P	±0.02%	±0.04%	A,B	G	PM921
24 VDC	12 VDC	470 mA	30 mA	360 mA	25 mA P-P	±0.02%	±0.04%	B	G	PM923
24 VDC	15 VDC	400 mA	30 mA	385 mA	27 mA P-P	±0.02%	±0.04%	B	G	PM924
24 VDC	±12 VDC	±230 mA	25 mA	340 mA	24 mA P-P	±0.02%	±0.02%	A,B	G	PM971
24 VDC	±15 VDC	±190 mA	30 mA	350 mA	25 mA P-P	±0.02%	±0.02%	A,B	G	PM972
28 VDC	5 VDC	1000 mA	20 mA	275 mA	22 mA P-P	±0.02%	±0.04%	A,B	G	PM931
28 VDC	12 VDC	470 mA	25 mA	310 mA	25 mA P-P	±0.02%	±0.04%	A,B	G	PM933
28 VDC	15 VDC	400 mA	25 mA	330 mA	26 mA P-P	±0.02%	±0.04%	B	G	PM934
28 VDC	±12 VDC	±230 mA	25 mA	290 mA	23 mA P-P	±0.02%	±0.02%	A,B	G	PM981
28 VDC	±15 VDC	±190 mA	25 mA	300 mA	24 mA P-P	±0.02%	±0.02%	A,B	G	PM982
48 VDC	5 VDC	1000 mA	13 mA	160 mA	22 mA P-P	±0.02%	±0.04%	A,B	G	PM941
48 VDC	12 VDC	470 mA	14 mA	180 mA	25 mA P-P	±0.02%	±0.04%	A,B	G	PM943
48 VDC	15 VDC	400 mA	15 mA	190 mA	27 mA P-P	±0.02%	±0.04%	A	G	PM944
48 VDC	±12 VDC	±230 mA	14 mA	170 mA	24 mA P-P	±0.02%	±0.02%	A,B	G	PM991
48 VDC	±15 VDC	±190 mA	14 mA	180 mA	25 mA P-P	±0.02%	±0.02%	A,B	G	PM992

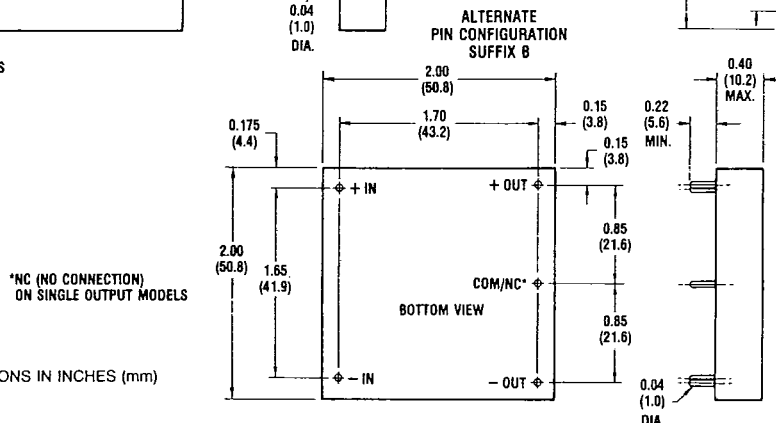
NOTE: 1. Alternate pin-out versions, if available, are designated by the suffixes shown. For example, model PM952 is available in two alternate pin-out versions—PM952A and PM952B. See case drawings below.



*NO PIN ON
SINGLE OUTPUT MODELS



*NC (NO CONNECTION)
ON SINGLE OUTPUT MODELS



ALL DIMENSIONS IN INCHES (mm)