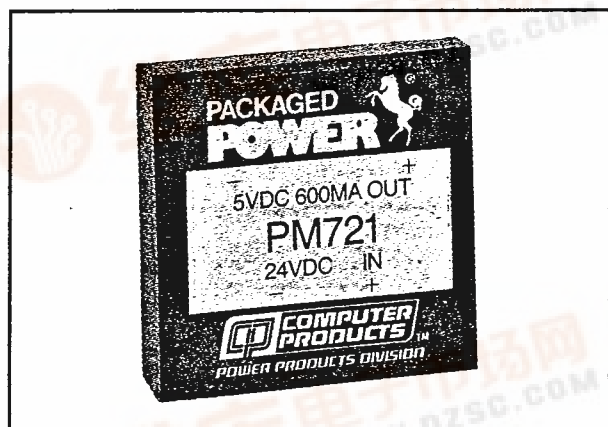




PM700 SERIES

Single and Dual Output

- General Purpose
- 65% Efficiency
- Low Ripple and Noise
- Pi Input Filter
- No Derating
- Short Circuit Protection

This series of general purpose DC/DC converters from Power Products includes 15 single output and 10 dual output models. The PM700 Series provides excellent voltage regulation and isolation with low ripple and noise at three watts output power. In addition to the standard pin configuration, two alternate pin configurations are available for multiple source capability. These compact modules contain Pi input filters to minimize reflected ripple current. 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; isolation, 500 VDC; and output voltage accuracy within $\pm 1.0\%$.

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



POWER PRODUCTS DIVISION

(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	$\pm 0.4\%$
Dual Output	$\pm 0.2\%$
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
Common-Mode Noise Current	
20 MHz BW	1 mA P-P
Switching Frequency	20 kHz, min.

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range ...	-25°C to $+71^{\circ}\text{C}$
Derating	See Table Below
Storage Temperature Range ...	-40°C to $+125^{\circ}\text{C}$
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 Socket, Standard Models	MS038-0
Suffix "A" Models	MS040-0

Input Voltage	Derate 2.5%/°C From 50°C to 71°C	No Derating -25°C to $+71^{\circ}\text{C}$
5V	4.4 - 6.5V	4.5- 5.5V
12V	10.56-15.6V	10.8-13.2V
24V	21.12-31.2V	21.6-26.4V
28V	24.64-36.4V	25.2-30.8V
48V	42.24-62.4V	43.2-52.8V

TWO-YEAR WARRANTY

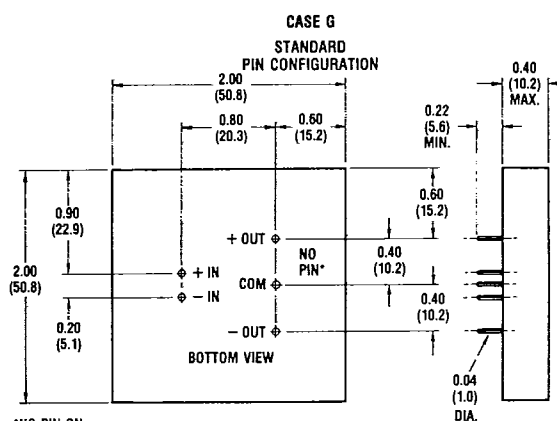


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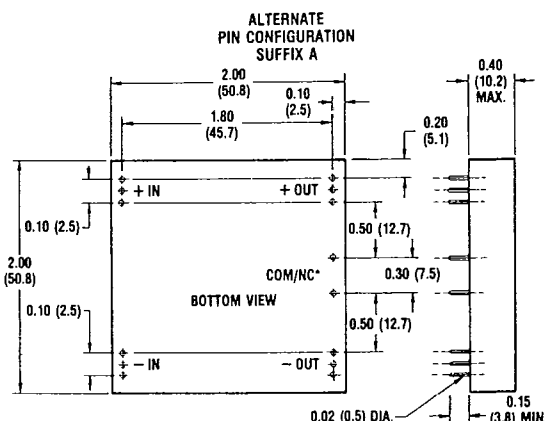
3 Watt DC/DC Converters

INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		REFLECTED RIPPLE CURRENT	REGULATION		ALT ¹ PIN OUT	CASE	MODEL NUMBER
			NO LOAD	FULL LOAD		LINE	LOAD			
5 VDC	5 VDC	600 mA	125 mA	935 mA	32 mA P-P	±0.02%	±0.04%	A,B	G	PM701
5 VDC	12 VDC	250 mA	140 mA	863 mA	31 mA P-P	±0.02%	±0.04%	A,B	G	PM703
5 VDC	15 VDC	200 mA	150 mA	850 mA	30 mA P-P	±0.02%	±0.04%	B	G	PM704
5 VDC	±12 VDC	±125 mA	130 mA	965 mA	34 mA P-P	±0.02%	±0.02%	A,B	G	PM751
5 VDC	±15 VDC	±100 mA	135 mA	955 mA	33 mA P-P	±0.02%	±0.02%	A,B	G	PM752
12 VDC	5 VDC	600 mA	50 mA	364 mA	24 mA P-P	±0.02%	±0.04%	A,B	G	PM711
12 VDC	12 VDC	250 mA	60 mA	340 mA	23 mA P-P	±0.02%	±0.04%	B	G	PM713
12 VDC	15 VDC	200 mA	60 mA	335 mA	22 mA P-P	±0.02%	±0.04%	B	G	PM714
12 VDC	±12 VDC	±125 mA	55 mA	380 mA	25 mA P-P	±0.02%	±0.02%	A,B	G	PM761
12 VDC	±15 VDC	±100 mA	55 mA	376 mA	24 mA P-P	±0.02%	±0.02%	A,B	G	PM762
24 VDC	5 VDC	600 mA	25 mA	163 mA	22 mA P-P	±0.02%	±0.04%	A,B	G	PM721
24 VDC	12 VDC	250 mA	30 mA	152 mA	22 mA P-P	±0.02%	±0.04%	B	G	PM723
24 VDC	15 VDC	200 mA	30 mA	150 mA	21 mA P-P	±0.02%	±0.04%	B	G	PM724
24 VDC	±12 VDC	±125 mA	25 mA	170 mA	23 mA P-P	±0.02%	±0.02%	A,B	G	PM771
24 VDC	±15 VDC	±100 mA	30 mA	168 mA	22 mA P-P	±0.02%	±0.02%	A,B	G	PM772
28 VDC	5 VDC	600 mA	20 mA	135 mA	21 mA P-P	±0.02%	±0.04%	A,B	G	PM731
28 VDC	12 VDC	250 mA	25 mA	125 mA	21 mA P-P	±0.02%	±0.04%	A,B	G	PM733
28 VDC	15 VDC	200 mA	25 mA	123 mA	20 mA P-P	±0.02%	±0.04%	B	G	PM734
28 VDC	±12 VDC	±125 mA	25 mA	145 mA	22 mA P-P	±0.02%	±0.02%	A,B	G	PM781
28 VDC	±15 VDC	±100 mA	25 mA	143 mA	21 mA P-P	±0.02%	±0.02%	A,B	G	PM782
48 VDC	5 VDC	600 mA	13 mA	78 mA	21 mA P-P	±0.02%	±0.04%	A	G	PM741
48 VDC	12 VDC	250 mA	14 mA	72 mA	20 mA P-P	±0.02%	±0.04%	A	G	PM743
48 VDC	15 VDC	200 mA	15 mA	71 mA	19 mA P-P	±0.02%	±0.04%	A	G	PM744
48 VDC	±12 VDC	±125 mA	14 mA	80 mA	21 mA P-P	±0.02%	±0.02%	A	G	PM791
48 VDC	±15 VDC	±100 mA	14 mA	79 mA	20 mA P-P	±0.02%	±0.02%	A	G	PM792

NOTE: 1. Alternate pin-out versions, if available, are designated by the suffixes shown. For example, model PM752 is available in two alternate pin-out versions—PM752A and PM752B. See case drawings below.

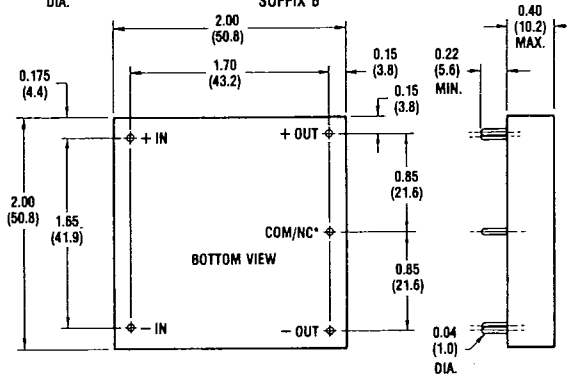


*NO PIN ON SINGLE OUTPUT MODELS



*NC (NO CONNECTION) ON SINGLE OUTPUT MODELS

*NC (NO CONNECTION) ON SINGLE OUTPUT MODELS



ALL DIMENSIONS IN INCHES (mm)