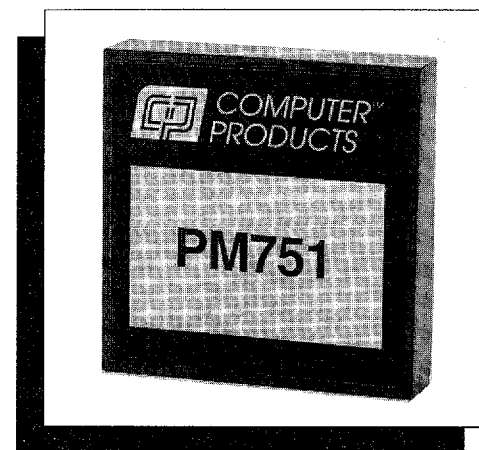


PM700 SERIES

Single and Dual Output

3 Watt DC/DC Converters

- 65% Efficiency
- Low Ripple and Noise
- Pi Input Filter
- No Derating
- Short Circuit Protection
- Meets VDE 0871 Level B
- 2 Year Warranty
- Linear Regulated Outputs



The PM700 series of general purpose DC/DC converters from Computer Products provides excellent voltage regulation and isolation with low ripple and noise at three watts output power. 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 $\pm 1.0\%$.

SPECIFICATIONS

All specifications typical at nominal line, full load, and 25°C unless otherwise noted.

OUTPUT SPECIFICATIONS		
Voltage Accuracy		±1.0%, max.
Voltage Balance	Dual Output	±0.5%, max.
Temperature Coefficient	Single Output	±0.02%/°C
	Dual Output	±0.01%/°C
Ripple and Noise	20 MHz BW	
	Single Output	10 mVTyp 50mV P-P, max.
	Dual Output	6 mVTyp 35mV 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	±0.4%
	Dual Output	±0.2%
Short Circuit Protection	Current Limited	
INPUT SPECIFICATIONS		
Input Voltage Range	See Table Below	
Input Filter	Pi Network	

Input Voltage	Derate 2.5%/°C From 50°C to 71°C	No Derating -25°C to 71°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
48V	42.24-62.4V	43.2-52.8V

GENERAL SPECIFICATIONS

Efficiency	Single Output	57%, min.
	Dual Output	57%, min.
Isolation Voltage	500 VDC, min.	
Isolation Capacitance	80 pF	
Isolation Resistance	10 ⁹ ohms	
Common-Mode Noise Current	20 MHz BW	1mA P-P
Switching Frequency	20 kHz, min.	

ENVIRONMENTAL SPECIFICATIONS

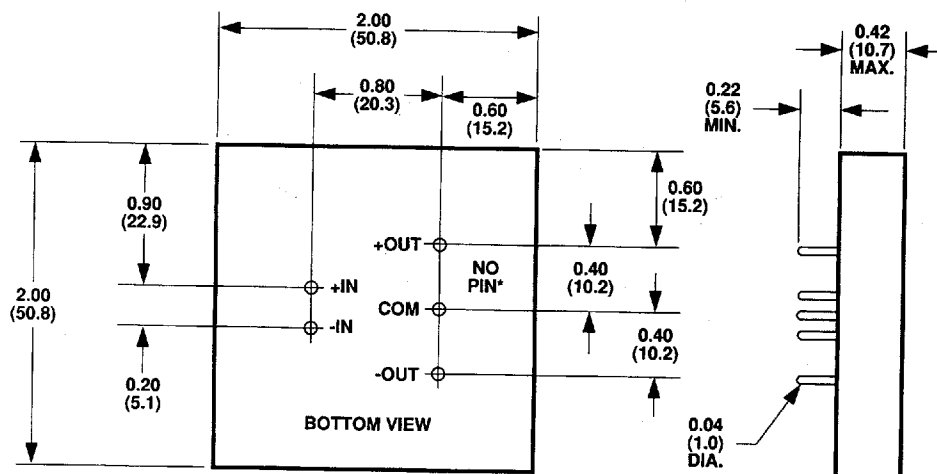
Operating Temperature Range	Ambient	-25°C to +71°C
	Case	95°C max.
Derating	none	
Storage Temperature Range	-40°C to +125°C	
Humidity	Non-Condensing	20% to 95% RH
Cooling	Free-Air Convection	
EMI/RFI	Meets VDE 0871 Level B	
MTBF ⁽¹⁾	680,000 hours	

PHYSICAL SPECIFICATIONS

Weight	2 oz. (57 grams)	
Case Material	Non-Conductive Black Plastic	
Mating Sockets	MS-038-0 or MS-Z	

Input Voltage	Output Voltage	Output Current	Input Current		Reflected Ripple Current	Regulation		Model Number
			No Load	Full Load		Line	Load	
5 VDC	±12 VDC	±125 mA	130 mA	965 mA	34 mA P-P	±0.02%	±0.02%	PM751
5 VDC	±15 VDC	±100 mA	135 mA	955 mA	33 mA P-P	±0.02%	±0.02%	PM752
12 VDC	5 VDC	600 mA	50 mA	364 mA	24 mA P-P	±0.02%	±0.04%	PM711
24 VDC	±12 VDC	±125 mA	25 mA	170 mA	23 mA P-P	±0.02%	±0.02%	PM771
24 VDC	±15 VDC	±100 mA	30 mA	168 mA	22 mA P-P	±0.02%	±0.02%	PM772
48 VDC	5 VDC	600 mA	13 mA	78 mA	21 mA P-P	±0.02%	±0.04%	PM741

T-57-11



ALL DIMENSIONS IN INCHES (mm)

*NO PIN ON SINGLE OUTPUT MODELS

Notes:

- (1) M.T.B.F. figures are based on actual product performance. Consult factory for details.
- (2) Fixed frequency design provides for easier input filtering and better noise performance.