

PM500 SERIES

Single Output

- OVP on 5V Outputs
- Split-Bobbin Wound
- UL Recognized
- CSA Certified
- 115, 100, 220, or 240 VAC Input
- Short Circuit Protection

These encapsulated, PC-mountable linear power modules feature 21 single output models for a wide variety of printed circuit board applications. Models PM534, PM542 and PM545 have overvoltage crowbar protection as a standard feature. Most models are UL recognized and CSA certified. For maximum safety, all power transformers are split-bobbin wound, rather than layer wound, to give total isolation with low coupling capacitance between primary and secondary. Conservative design and rating of these modules results in reliable operation and long life. Standard input voltage is 115 VAC at 50 to 400 Hz; other optional inputs are 100, 220, and 240 VAC. Most models are available in standard and alternate pin configurations for second sourcing applications. This series includes eight sub-miniature modules for lower power applications where minimum circuit board space is available.



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



(305) 974-2442

SPECIFICATIONS

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

OUTPUT SPECIFICATIONS

Voltage Accuracy ±1.0%, max.
 Temperature Coefficient ±0.02%/°C.
 Short Circuit Protection..... Automatic
 Overvoltage Crowbar, 5V Outputs 6.2V, nominal

INPUT SPECIFICATIONS

Input Voltage Range, Standard Models 105 to 125 VAC
 Other Models See Table
 Input Frequency 50 to 400 Hz
 Derating at 400 Hz Consult Factory

GENERAL SPECIFICATIONS

Isolation Voltage 2500 VRMS
 Isolation Capacitance..... 50 pF
 Isolation Resistance 50 megohms

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range ... -25°C to +71°C
 Derating, 50°C to 71°C 2.5%/°C
 Storage Temperature Range -25°C to +85°C
 Humidity, Non-Condensing 20% to 95% RH
 Cooling Free-Air Convection

PHYSICAL SPECIFICATIONS

Weight, Case A..... 6.4 oz. (181 grams)
 Case B1..... 12 oz. (340 grams)
 Case B2..... 14.4 oz. (408 grams)
 Case B3..... 22.4 oz. (635 grams)
 Case H..... 8 oz. (227 grams)
 Case Material Non-Conductive Black Plastic
 Mating Socket, Case A MS010-0
 Case B MS013-0
 Case B, Suffix "S" Models MS013-1
 Case H MS011-1

For screw-terminal sockets see page 100.

NOTE: All Case B models are available with alternate pin-out designated by suffix letter "S". See case drawing. All models are also available with four optional input voltage ranges designated by the suffixes shown in table. When ordering, specify the complete model number followed by input voltage and alternate pin-out designations, if any. For example, PM542, PM542J, PM542S, PM542JS, etc.

Input Voltage	Suffix
115 ± 10 VAC	(NONE)
100 ± 10 VAC	J
220 ± 20 VAC	D
240 ± 20 VAC	K

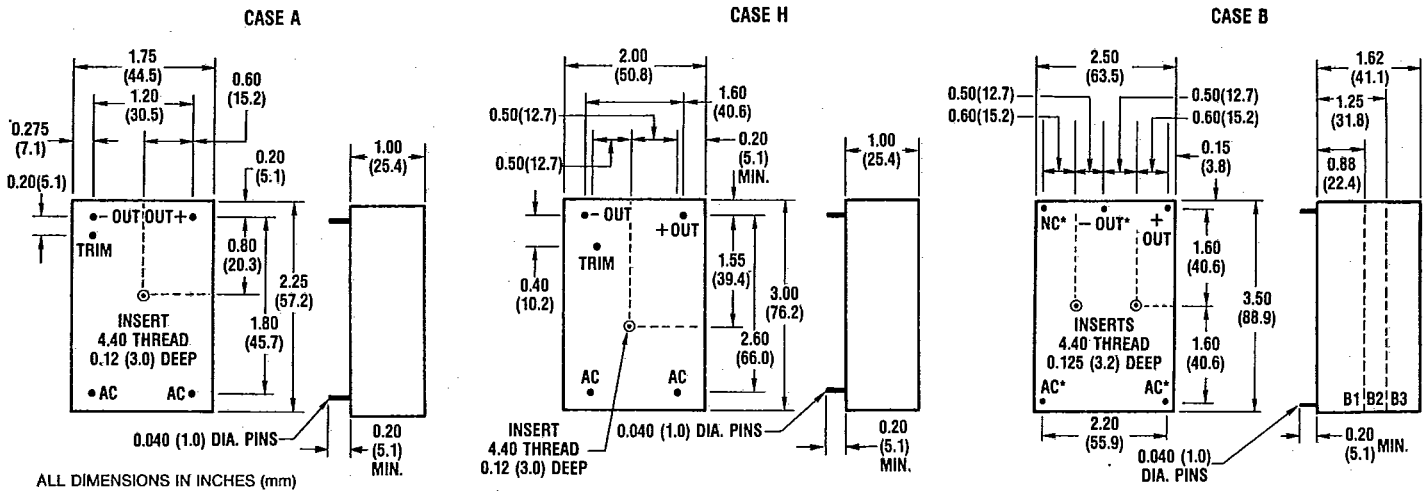
TWO-YEAR WARRANTY



1 to 10 Watt Encapsulated Power Modules

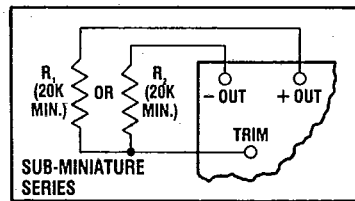
OUTPUT VOLTAGE	OUTPUT CURRENT	OVP	REGULATION		RIPPLE AND NOISE	UL	CSA ¹	ALT PIN OUT	CASE	MODEL NUMBER
			LINE	LOAD						
5 VDC	250 mA		±.02%	±.04%	1.0 mV RMS	✓	✓	S	B1	PM533
5 VDC	500 mA	✓	±.02%	±.04%	1.0 mV RMS	✓	✓	S	B1	PM534
5 VDC	1000 mA	✓	±.02%	±.04%	1.0 mV RMS	✓	✓	S	B2	PM542
5 VDC	2000 mA	✓	±.02%	±.05%	1.0 mV RMS	✓	✓	S	B3	PM545
12 VDC	240 mA		±.02%	±.02%	0.5 mV RMS	✓			B2	PM515
12 VDC	400 mA		±.02%	±.02%	1.0 mV RMS	✓			B3	PM516
12 VDC	600 mA		±.02%	±.02%	1.0 mV RMS	✓			B3	PM517
15 VDC	200 mA		±.02%	±.02%	0.5 mV RMS	✓			B2	PM554
15 VDC	350 mA		±.02%	±.02%	1.0 mV RMS	✓			B3	PM555
15 VDC	500 mA		±.02%	±.02%	1.0 mV RMS	✓			B3	PM556
24 VDC	100 mA		±.02%	±.02%	0.5 mV RMS	✓			B2	PM566
24 VDC	200 mA		±.02%	±.02%	0.5 mV RMS	✓			B3	PM567
24 VDC	400 mA		±.02%	±.02%	1.0 mV RMS	✓			B3	PM568
SUB-MINIATURE SERIES										
5 VDC	250 mA		±.05%	±.05%	0.5 mV RMS		✓		H	PM529
10 VDC	120 mA		±.02%	±.02%	0.5 mV RMS	✓	✓		A	PM587
12 VDC	100 mA		±.02%	±.02%	0.5 mV RMS	✓	✓		A	PM563
15 VDC	100 mA		±.02%	±.02%	0.5 mV RMS	✓	✓		A	PM576
18 VDC	65 mA		±.02%	±.02%	1.0 mV RMS	✓	✓		A	PM560
20 VDC	60 mA		±.02%	±.02%	1.0 mV RMS	✓	✓		A	PM574
24 VDC	50 mA		±.02%	±.02%	1.0 mV RMS	✓	✓		A	PM585
28 VDC	40 mA		±.02%	±.02%	1.0 mV RMS	✓	✓		A	PM562

NOTE 1: All models CSA Certified (✓) or pending.



SUB-MINIATURE SERIES TRIM CONNECTION

A TRIM connection on all Sub-Miniature Series modules provides a means of externally adjusting a unit's output voltage precisely to its labeled value. To RAISE the output voltage, connect a resistance (20KΩ, min.) between the TRIM terminal and the positive (+) output terminal. To LOWER the output voltage, connect a resistance (20KΩ, min.) between the TRIM terminal and the negative (-) output terminal.



TRIM CONNECTION

- FOR SUFFIX S MODELS:
- NC PIN IS - OUT
- - OUT PIN IS NC (NO CONNECTION)
- AC PIN SPACING IS 2.00 IN. (50.8 MM)