

FEATURES

- PIN-OUT COMPATIBLE WITH LM78XX LINEAR REGULATORS
- SMALL SIZE AND LOW PROFILE : L X W X H = 0.45" X 0.35" X 0.69"
- HIGH EFFICIENCY UP TO 97%
- LOW STANDBY CURRENT
- SHORT CIRCUIT PROTECTION
- OVER-TEMPERATURE PROTECTION
- LOW OUTPUT RIPPLE AND NOISE
- FIXED SWITCHING FREQUENCY
- NEGATIVE OUTPUT APPLICATION (OPTIONAL)
- DESIGN MEETS UL60950-1, EN60950-1 AND IEC60950-1
- COMPLIANT TO RoHS

APPLICATIONS

Wireless Network
 Telecom/Datacom
 Industry Control System
 Distributed Power Architectures
 Semiconductor Equipment
 Microprocessor Power Applications

DESCRIPTION

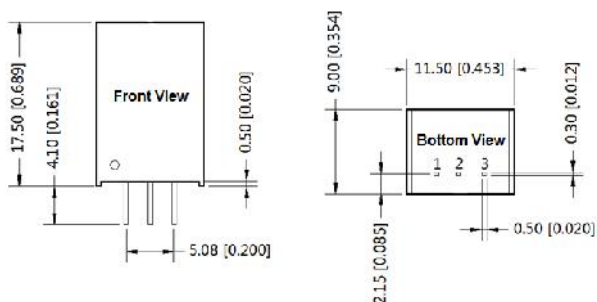
The PM-1000B SERIES are high performance switching regulators are suited to replace 78xx linear regulators and pin compatible. It provides 1A output current and high efficiency up to 96%. The PM1000B series also can be used to converter a positive voltage into negative voltage.

TECHNICAL SPECIFICATION All specifications are typical at nominal input, full load and 25°C otherwise noted

OUTPUT SPECIFICATIONS			INPUT SPECIFICATIONS		
Output current	See table	1000mA, max.	Input voltage range for Positive output		See table 4.75 ~ 32VDC
Voltage accuracy		±2%Vo			
Line regulation		± 0.2%Vo	Maximum input current	Vin=Vin(min), Io=Io(max)	1A
Load regulation	10% to 100% of F.L	± 0.4%	Input filter C filter		
			Input reflected ripple current 100mA		
ENVIRONMENTAL SPECIFICATIONS					
Operating temperature range		-40°C ~ +85°C(with derating)			
Storage temperature range		-55°C ~ +125°C			
Case Max Operating Temperature		100°C			
Cooling Method		Free air flow			
Output short-circuit		Continuous, automatics recovery			
GENERAL SPECIFICATIONS			FEATURE SPECIFICATIONS		
Efficiency (Note 3)		See table	Start up time	Nominal Input and constant resistive load	Power up 0.5mS
Isolation voltage		None	Thermal Impedance 85		
Switching frequency (KHz)		100%load, Typ. 330 280,min 450max	Note		
Design meet safety standard		IEC60950-1, UL60950-1, EN60950-1	1. BELLCORE TR-NWT-000332. Case I: 50% Stress, Temperature at 40°C (Ground fixed and controlled environment) MIL-HDBK-217F Notice2 @Ta=25 °C, Full load (Ground, Benign, controlled environment)		
Case material		Non-conductive black plastic	2. Typical value at nominal input and no load.		
Base material		None	3. Typical value at minimum input or maximum input voltage and full load.		
Potting material		Silicon (UL94-V0)	4. Tested with minimum input and constant resistive load.		
Dimensions		0.45" X 0.35" X 0.69", Inch (11.5 X 9 X 17.5 mm)	CAUTION: This power module is not internally fused. An input line fuse must always be used.		
Weight		3.7g			
MTBF (Note 1)		MIL-HDBK-217F@25 °C 2000K hours			

Model Name	Input Voltage	Nominal Input	Output Voltage	Output Current	Efficiency (%) (3)	
				Max. Load	Min. Vin	Max. Vin
PM-1000B033	4.75 ~ 28VDC	24VDC	3.3VDC	1000mA	91	83
PM-1000B050	6.5 ~ 32VDC	24VDC	5.0VDC		93	88
PM-1000B065	9 ~ 32VDC	24VDC	6.5VDC		94	90
PM-1000B090	12 ~ 32VDC	24VDC	9.0VDC		95	92
PM-1000B120	16 ~ 32VDC	24VDC	12.0VDC		96	94
PM-1000B150	20 ~ 32VDC	24VDC	15.0VDC		97	94

Mechanical Drawing:



Note:
 Unit :mm[inch]
 Pin diameter tolerances : $\pm 0.10[\pm 0.004]$
 General tolerances: $\pm 0.25[\pm 0.010]$

PIN CONNECTION	
PIN	DEFINE
1	+VIN
2	GND
3	+VOUT