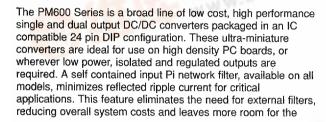
### 查询PM633供应商

## **PM600 SERIES**

### Single and dual output

Recommended for new design-ins

- 24 pin DIP package
- Regulated outputs
- Pi input filter
- 20mV pk-pk ripple and noise
- Short circuit protection





#### 2 YEAR WARRANTY

required components. The units maintain tight regulation for input voltage variations of  $\pm 10\%$ , and they require no derating over specified operating temperature range. Other pertinent specifications include: line regulation,  $\pm 0.3\%$ ; load regulation,  $\pm 0.4\%$ ; output voltage accuracy,  $\pm 5\%$ ; ripple and noise, 20mV pk-pk; efficiency, 50%; isolation, 300VDC; temperature coefficient,  $\pm 0.01\%$ °C and 1.25 x 0.8 x 0.4 inch case dimensions.

#### **SPECIFICATION**

ALL SPECIFICATIONS ARE TYPICAL AT NOMINAL INPUT, FULL LOAD AND 25°C UNLESS OTHERWISE STATED

OUTPUT SPECIFICATION	ONS			
Voltage accuracy		±5.0%, max.		
Line regulation	LL to HL	±0.3%		
Load regulation	NL to FL	±0.4%		
Ripple and noise	20MHz BW See Note 5	20mV pk-pk, max.		
Transient response	Overshoot for 10% to 90% FL	±0.1%, typical		
Temperature coefficient	191	±0.01%°C, typical		
Short circuit protection	Output thermal limited	Continuous automatic recovery		
INPUT SPECIFICATION	IS .			
Input voltage range	5VDC, See Note 1 12VDC, See Note			
Input filter	See Note 8	Pi network		
Fault current mode		150% of FL input current		

GENERAL SPECIFICAT	FIONS	
Efficiency		50% typical
Isolation voltage		300VDC
Switching frequency	Fixed	40kHz to 70kHz
Case material	TE WW	Non-conductive black plastic
Weight		14g (0.5oz)
MT <mark>BF</mark> (75% FL)	Single Outputs Dual Outputs	434,000 hours 268,000 hours
ENVIRONMENTAL SPI	ECIFICATIONS	
Thermal performance	Operating ambient Non-operating amb. Case Derating Cooling	-25°C to +71°C , -40°C to +125°C +95°C, max. None required Free air convection
Relative humidity	Non-condensing	20% to 95% RH
Altitude	Operating Non operating	10,000 feet max. 40,000 feet max.
Vi <mark>brati</mark> on		2.5G rms (approx.) 5Hz to 500Hz



# 0.5 to 1 Watt Nominal input DC/DC converters

INPUT	OUTPUT	OUTPUT	INPUT	TYPICAL	REGU	LATION	MODEL
VOLTAGE	VOLTAGE	CURRENT	CURRENT (1)	EFFICIENCY	LINE (2)	LOAD (3)	NUMBER
5VDC	5VDC	100mA	260mA	50%	±0.3%	±0.4%	PM621
5VDC	12VDC	80mA	380mA	50%	±0.3%	±0.4%	PM623
5VDC	±12VDC	±40mA	380mA	50%	±0.3%	±0.4%	PM671 (4)
5VDC	±15VDC	±33mA	380mA	50%	±0.3%	±0.4%	PM672 <sup>(4)</sup>
12VDC	5VDC	100mA	100mA	50%	±0.3%	±0.4%	PM631
12VDC	12VDC	80mA	145mA	50%	±0.3%	±0.4%	PM633
12VDC	±12VDC	±40mA	145mA	50%	±0.3%	±0.4%	PM681 (4)
12VDC	±15VDC	±33mA	145mA	50%	±0.3%	±0.4%	PM682 (4)

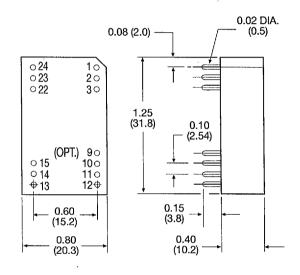
#### Notes

- Maximum figure, at full load.
- Measured from high line to low line. Measured as load changes from no load to 100% full load.
- The PM671 is available with optional voltage balance pin, and is designated by suffix letter "P". For connection information, see case drawing. In addition, both the PM671 and PM672 are available with alternate pin-out (including balance pin) designated by suffix letter "R". See
- case drawing. If not required, the balance pin can be left floating.

  Measured with a 15µF tantalum capacitor across each output.

  On dual output models the four common pins are internally connected. The outputs can be returned through one pin while the others remain floating.
- Standard specifications are conservative and can be optimized for specific applications. In particular, converter start-up at lower than specified temperature, wider input voltage range and output voltage adjustment are all relatively simple modifications to the standard product. Consult factory for details.
- Fixed frequency design provides for easier input filtering and better noise
- Units are tested with resistive load only.
- 10 Output current derates to 0 at 110% nominal Vin.

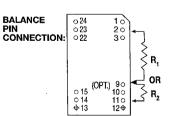
#### **CASE F**



ALL DIMENSIONS INCHES (mm)

	PIN CONNECTIONS					
PIN NUMBEF	SINGLE OUTPUT MODELS	DUAL OUTPUT MODELS (6)	ALTERNATE PIN-OUT SUFFIX R (4)			
1	+V Input	+V Input	+V Input			
2	Do not connect	-V Output	+V Input			
3	Do not connect	Common	+V Input			
9	No Pin	Balance (opt)*	No Pin			
10	-V Output	Common	Common			
11	+V Output	+V Output	Common			
12	-V Input	-V Input	Do not connect			
13	–V Input	–V Input	–V Output			
14	+V Output	+V Output	Balance			
15	–V Output	Common	+V Output			
22	Do not connect	Common	–V Input			
23	Do not connect	–V Output	–V Input			
24	+V Input	+V Input	–V Input			

<sup>\*</sup> PM671P.



Connect R<sub>1</sub> as required to balance outputs when 1 + Vout! > I - Vout!

Connect R2 as required to balance outputs when I - V<sub>out</sub>I > I + V<sub>out</sub>I

Input to balance pin: ±5mA, max. R<sub>1</sub> or R<sub>2</sub>: 3K Ohm, min.

Call Toll-Free: (East) 800-733-9288 · (West) 800-769-7274