

# DC/DC CONVERTERS

LAN and general-purpose DC/DC Converters for a wide variety of applications.

## 2W Unregulated LAN DC/DC Converters

- Initial output tolerance  $\pm 5\%$  maximum at nominal  $V_{IN}$  and 200mA output current (see below for full tolerance)
- PM6511/12 are the industry's first surface mountable unregulated 2W DC/DC Converters
- Rated for continuous operation at full load between  $0^\circ$  and  $70^\circ\text{C}$
- Designed for low ripple reflected onto input bus
- Self-standing, no external components required in normal applications

Part Number	$V_{IN}^{(1)}$ nom (Vdc)	$V_{OUT}^{(2)}$ nom (Vdc)	$I_{OUT}^{(3)}$ spec'd (mA dc)	Line Reg <sup>(4)</sup> typ (% $V_{OUT}/\%$ $V_{IN}$ )	$R_{OUT}^{(5)}$ typ (Ohms)	Efficiency typ (%)	Ripple max (mVp-p)	Isolation (Vac)	Package <sup>(6)</sup>
PM2102	5	9	200	1.20	4.0	68	50	500	B 12-pin SIL
PM7102	5	9	200	1.20	4.4	68	100	500	C 24-pin DIP
PM6022	5	9	200	1.20	4.4	68	100	2000	D 24-pin DIP
PM6511	5	9	200	1.20	4.4	68	100	2000	E 10-pin SMD
PM7103	5	9	200	1.20	4.4	68	100	2000	C 24-pin DIP
PM2104	12	9	200	1.15	1.9	68	100	500	B 12-pin SIL
PM7104	12	9	200	1.15	1.8	68	100	500	C 24-pin DIP
PM6028	12	9	200	1.15	1.8	68	100	2000	D 24-pin DIP
PM6512	12	9	200	1.15	2.6	68	100	2000	E 10-pin SMD
PM7105	12	9	200	1.15	1.8	68	100	2000	C 24-pin DIP

<sup>(1)</sup> Input voltage range  $\pm 5\%$  minimum, although typically limited by output voltage performance limitations.

<sup>(2)</sup> Outputs are fully isolated and may be applied as either positive or negative.

<sup>(3)</sup> Output currents up to 250mA are acceptable with a proportional increase in load regulation and ripple.

<sup>(4)</sup> Variation in output voltage with change in input voltage.

<sup>(5)</sup> Effective output resistance. Use to calculate increase in output voltage with loading below 200mA, and changes in output voltage due to transmit/standby load changes.

<sup>(6)</sup> Package drawings shown on pages 16 - 17.

Note: Total  $V_{OUT}$  tolerance added to the sum of changes due to load current and input voltage changes.

## 7W LAN Hub DC/DC Converter

- Switching regulated ( $5V \pm 5\%$ ,  $9V \pm 10\%$  including  $V_{IN}$  and  $I_{OUT}$ )
- Ultrawide-range input voltage for use with unregulated wall-mount power supplies
- Compatible with AMD AM79C980 Integrated Multiport Repeater and AM7997 Transceiver
- Rated for continuous operation at full load between  $0^\circ$  and  $70^\circ\text{C}$
- Includes common-mode and output differential filters for low EMI
- Self-standing, no external components required in normal applications

Part Number	$V_{IN}$		$V_{OUT}$	$I_{OUT}$		Ripple	Isolation	Package <sup>(3)</sup>
	nom (Vdc)	range (Vdc)	nom (Vdc)	min (mA dc)	max (mA dc)	max (mVp-p)	(Vac)	
PM6049	+12	9.2-19.5	+5 <sup>(1)</sup>	500	1000	100	Non-isolated	A 7-pin DIL
			9 <sup>(2)</sup>	50	200	100	2000	

<sup>(1)</sup> Regulated within  $\pm 5\%$  including full range  $V_{IN}$  and  $I_{OUT}$  variations. Output is a dedicated polarity and shares a "common" with the +12V input.

<sup>(2)</sup> Output is fully isolated and may be applied as either positive or negative.

<sup>(3)</sup> Package drawing shown on page 16.