

Surface Mount, Low Power DC/DC Converters for Ethernet Applications: 80Z0509XSMD and 80Z1209XSMD

Key Features

- All Fil-Mag® components are manufactured in ISO 9001 certified facilities to meet the highest international standards
- High MTBF due to low parts count
- 100% burn-in at 70°C
- 100% tested on ATE
- Surface mount assembly technology used
- High efficiency ratings
- Operating temperature is 0° to 70°C
- Enable function provides power down feature
- Ideal for motherboard, Pocket LAN, PCMCIA LAN card applications
- Continuous short circuit protection

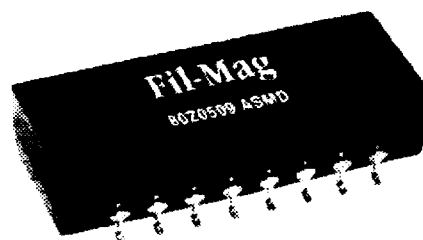
Surface Mount

- Designed and tested to withstand I.R. profiles
- Pick and place compatible
- Molded for high integrity
- 16-pin package
- Available in tubes; tape and reel optional

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Microminiature DC/DC Converters for Ethernet



Electrical Specifications at 25°C

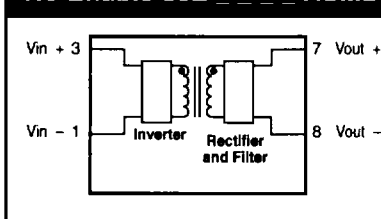
Part No	Input VDC	Input Voltage Tolerance	Enable Function	Isolation Vrms	Output VDC	Regulated Output	Output Current mA max	Ripple @ 20 MHz BW	
								mVpp max	mVpp Typ
80Z0509 ASMD	5	±5%	No	500	-9	No	200	100	50
80Z1209 ASMD	12	±5%	No	500	-9	No	200	100	50
80Z0509 BSMD	5	±5%	Low TTL	500	-9	No	200	100	50
80Z1209 BSMD	12	±5%	Low*	500	-9	No	200	100	50
80Z0509 CSMD	5	±5%	Hi TTL	500	-9	No	200	100	50
80Z1209 CSMD	12	±5%	Hi TTL	500	-9	No	200	100	50
80Z1209 DSMD	12	±5%	Low TTL	500	-9	No	200	100	50

* Enable: Enable requires open collector.

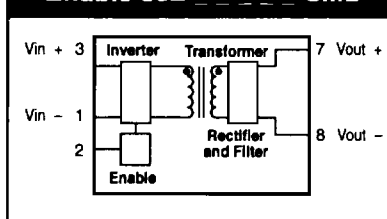
General Specifications

Power Ratings: Up to 1.8 W
Switching Frequency: 80 KHz min (110 kHz typ)
Output Voltage Accuracy: ±5% nominal line at full load
Minimum Efficiency: >68% nominal line at full load
MTBF: 1,700 khr typical at 40°C

No Enable 80Z ASMD



Enable 80Z SMD



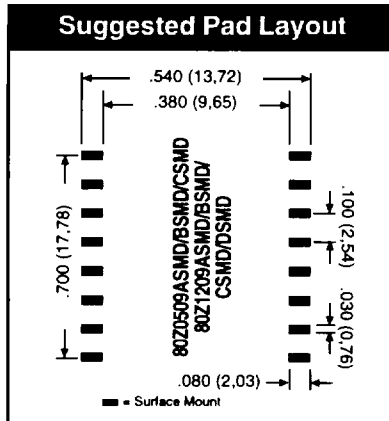
Note:
80Z0509 BSMD: pin 2 is Low Enable TTL
80Z1209 BSMD: pin 2 is Low Enable Open Collector
80Z ____ CSMD: pin 2 is High Enable TTL
80Z1209 DSMD: pin 2 is Low Enable TTL

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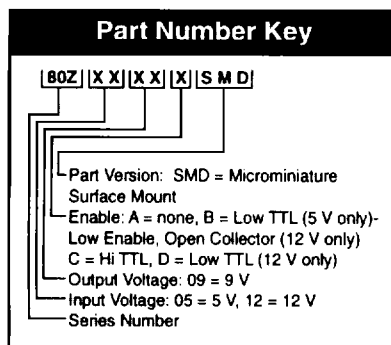
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Ethernet Applications:
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80Z1209XSMD**

Suggested Pad Layout



Part Number Key



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In the construction of the components described, the full intent of the specification will be met. Fil-Mag®, Inc. however, reserves the right to make, from time to time, such departures from the detail specifications as may be required to permit improvements in the design of its products.

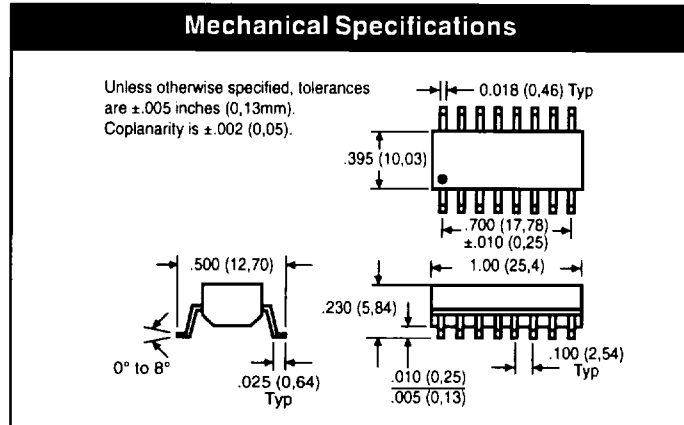
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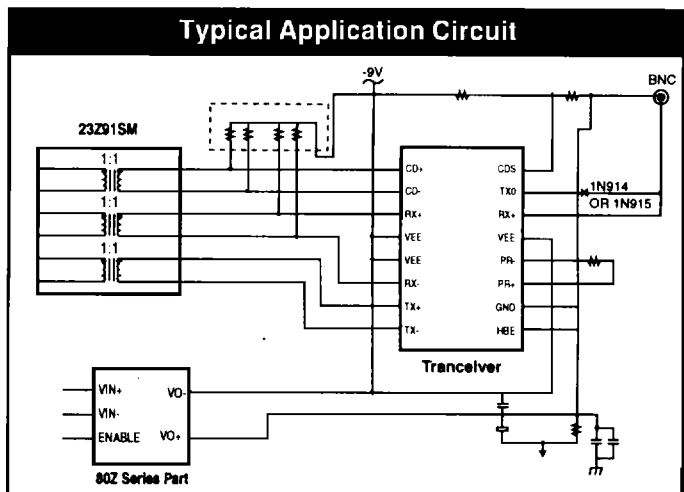
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**Microminiature DC/DC Converters
for Ethernet**

Mechanical Specifications



Typical Application Circuit



Note:
Please check your IC manufacturer's data book for more detailed information.

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