

Low Power DC/DC Converters Designed to Provide Power for Ethernet Applications

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
- Low ripple and noise
- Regulated and unregulated available
- High efficiency ratings
- Operating temperature is 0° to 70°C
- Fil-Mag DC/DC converters are designed to work with Ethernet transceiver chips

Through-Hole

- 24-pin compatible DIP and DIL packages
- All internal components are completely pretested
- Auto insertable



DC/DC Converters for Ethernet



Electrical Specifications at 25°C

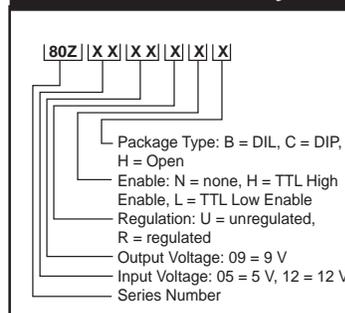
Part No	Pkg Typ	Input VDC	Input Voltage Tolerance	Enable Function*	Isolation Vrms	Output VDC	Regulated Output	Output Current mA max	Ripple @ 20 MHz BW		Output Short Circuit Protection
									mVpp max	mVpp Typ	
80Z1209 RNB	DIL	12	±5%	No	2000	-9	Yes	200	100	50	continuous
80Z1209 RNH	DIP Open	12	±5%	No	2000	-9	Yes	250	100	50	continuous
80Z0509 UNH	DIP Open	5	±5%	No	2000	-9	No	200	50	15	continuous
80Z0509 UNC	DIP	5	±5%	No	2000	-9	No	200	50	15	continuous
80Z0509 RNH	DIP Open	5	±5%	No	2000	-9	Yes	250	100	50	continuous
80Z0509 RNC	DIP	5	±5%	No	2000	-9	Yes	250	100	50	continuous
80Z0509 RHH	DIL Open	5	±10%	High	2000	-9	Yes	250	100	50	continuous
80Z0509 RLH	DIL Open	5	±5%	Low	2000	-9	Yes	250	100	50	continuous

*Enable: High indicates -9 V present with TTL Logic High; low indicates -9 V present with TTL Logic Low

General Specifications

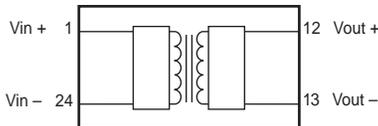
Power Ratings: Up to 2.25 Watts
 Switching Frequency: 25 kHz min (60 kHz typ)
 Output Voltage Accuracy: ±5%, unregulated units are tested with nominal line at full load
 Efficiency: Regulated 70% typical, unregulated 77% typical
 MTBF: regulated-1,300 khr typical at 40°C, unregulated-1,500 khr typical at 40°C

Part Number Key



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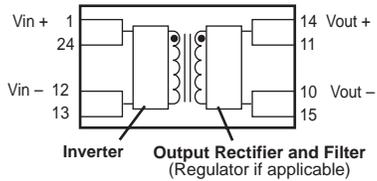
80Z1209 RNB Pinouts



Notes:

- Special 4 pin terminal devices

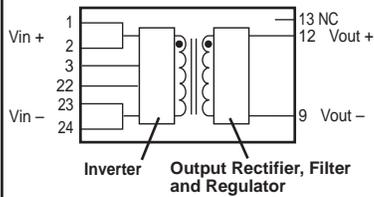
80Z Series DIP Pinouts



Note for DIP package:

- Pinouts are applied to both regulated or unregulated output
- No enable function

80Z Series DIL Pinouts



Note for DIL package:

- Pin 22 is High Enable
- Pin 3 is Low Enable
- Pin 13 is No Connect
- Enable pin is installed as part of the option
- Does not offer unregulated output

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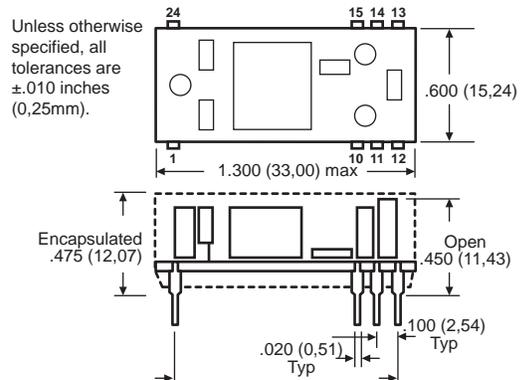
The components on this data sheet are Fil-Mag Legacy Parts.

In the construction of the components described, the full intent of the specification will be met. Pulse, 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.

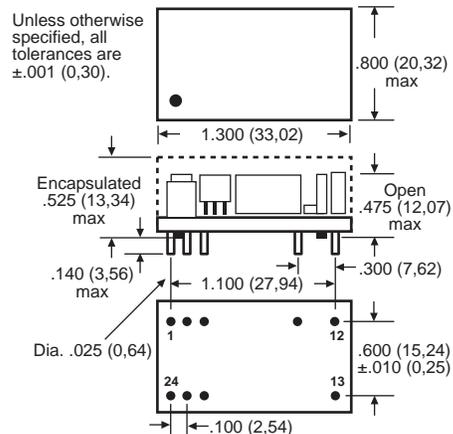
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DIP Mechanical Specifications



DIL Mechanical Specifications



Note: 80Z1209 RNB has only four pins (1, 12, 13, and 24)

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