

Power Solutions



FEATURES

- Bobbin Format
- Dual Winding
- Surface Mounting
- Integral EMI Shield
- Compact Size
- Tape and Reel Packaging
- Low Profile

DESCRIPTION

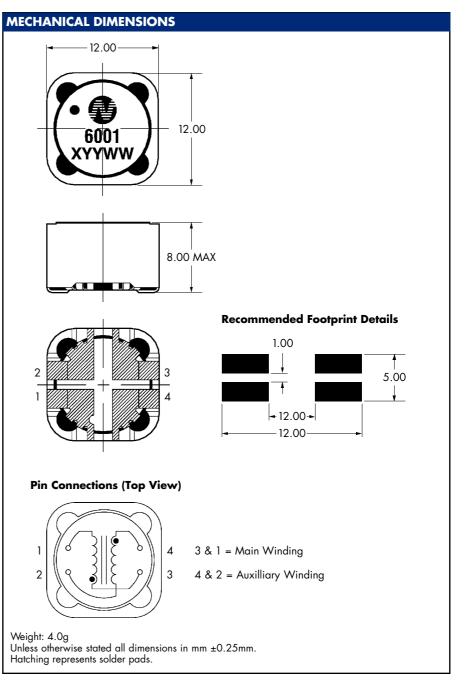
The 6001 inductor has been specifically designed for operation with the ZETEX ZXRD1000 PWM DC-DC Controllers or the Simplesync™ high efficiency converters. The dual winding offers a unique synchronous solution for on card conversion.

Zetex Compatible ZXRD1000 Inductor

SELECTION GUIDE						
	Inductance		DC Resistance		DC Current Continuous ²	
Order Code	µH 1kHz,100mV Pins 3 & 1	µH 1kHz,100mV Pins 4 & 2	TYP Pins 3 & 1	TYP Pins 4 & 2	A MAX Pins 3 & 1	A MAX Pins 4 & 2
6001	10±25%	10±25%	0.015±25%	0.053±25%	4.0	1.5

ABSOLUTE MAXIMUM RATINGS Operating free air temperature range –40°C to 85°C –40°C to 125°C

Storage temperature range



Specifications typical at $T_A = 25^{\circ}C$

2 If current is flowing in both windings the maximum DC current occurs when either the inductance falls to 75% of its nominal value or when its temperature rise reaches 40°C, whichever is sooner. 3 For tape and reel packaging details refer to datasheet NDC AN002.

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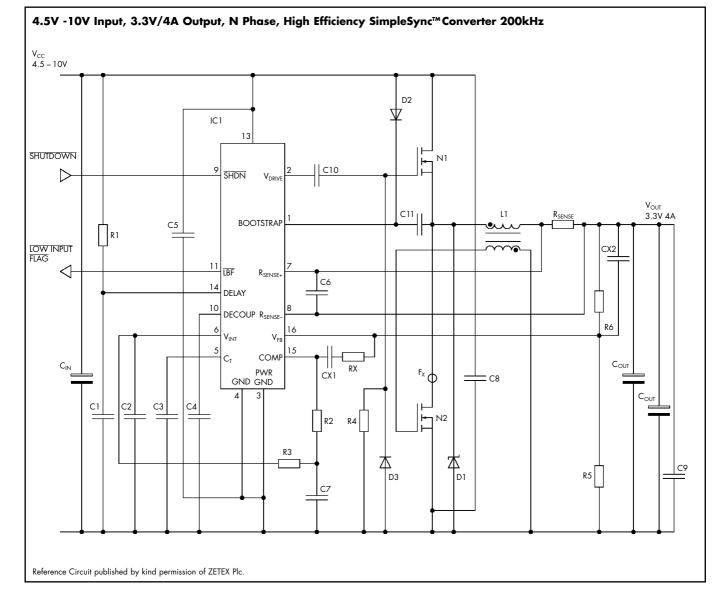
6001

Zetex Compatible ZXRD1000 Inductor

APPLICATION NOTES

The 6001 inductor enables the basic architecture of a non synchronous converter to be used to generate synchronous operation without the need for complex circuitry and additional cost.

The 6001 generates a drive waveform that is inverted compared to the waveform at the main input to the inductor. This waveform can be used to drive the synchronous switch. The net result gives additional benefits and lowers the overall cost.



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