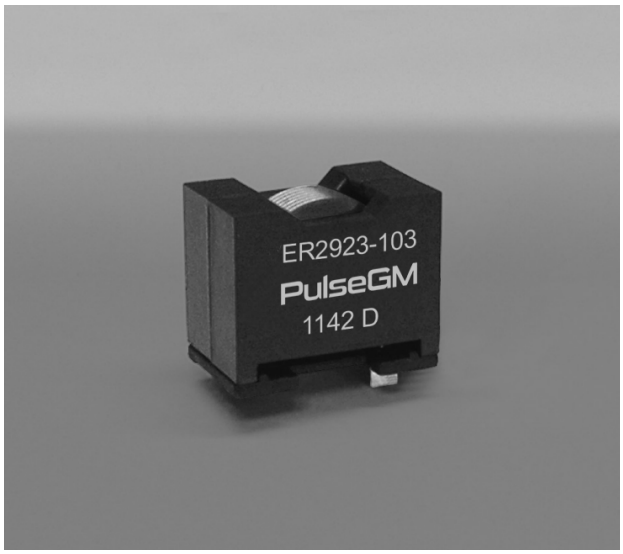
Shielded Power Inductors – ER2923



- Designed for high current power supply applications with saturation current ratings to over 100 Amps
- Ideal for use in Class-D applications
- Flat wire windings provide extremely low DC and AC resistance
- Vertical mounting provides a small footprint

Core material Ferrite
Core and winding loss
Terminations RoHS compliant tin-silver over copper. Other terminations available at additional cost.
Weight 37 g
Ambient temperature –40°C to +85°C with (40°C rise) Irms current.
Maximum part temperature +125°C (ambient + temp rise).
Storage temperature Component: –40°C to +125°C.
Tape and reel packaging: –40°C to +80°C
Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)
Failures in Time (FIT) / Mean Time Between Failures (MTBF)
38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332
Packaging 25 parts per tray
PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash.

Part number	Inductance[1] ±10% (µH)	DCR (mOhms)[2] nom	DCR (mOhms)[2] max	SRF typ[3] (MHz)	Isat (A)[4] 10% drop	Isat (A)[4] 20% drop	Isat (A)[4] 30% drop	Irms (A)[5] 20°C rise	Irms (A)[5] 40°C rise
ER2923-332KL	3.3	2.3	2.6	40	95.0	104	108	19	26
ER2923-472KL	4.7	2.3	2.6	30	63.0	69.0	72.0	19	26
ER2923-682KL	6.8	2.3	2.6	25	48.0	53.0	56.0	19	26
ER2923-103KL	10	2.3	2.6	20	30.0	34.0	37.0	19	26
ER2923-153KL	15	2.3	2.6	16	20.5	23.0	24.5	19	26
ER2923-223KL	22	2.3	2.6	13	12.2	14.7	16.4	19	26
ER2923-333KL	33	2.3	2.6	10	7.5	9.2	10.3	19	26

1. Inductance tested at 300 kHz, 0.1 Vrms on Agilent/HP 4192A.
2. DCR measured on a Keithley 580 micro-ohmmeter or equivalent.
3. SRF measured on an Agilent/HP 8753ES network analyzer.
4. DC current at 25°C that causes the specified inductance drop from its value without current.
5. Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings.

Temperature rise of the core is usually less than that of the winding.
When Irms is greater than Isat, Isat is the more critical specification and Irms is shown in gray type.
6. Electrical specifications at 25°C.
Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

Caution:
This series is not intended for use in high vibration environments. We advise using additional means of securing the part to the circuit board to ensure its adhesion.

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Specification subject to change without notice.
Please check web site for latest information.

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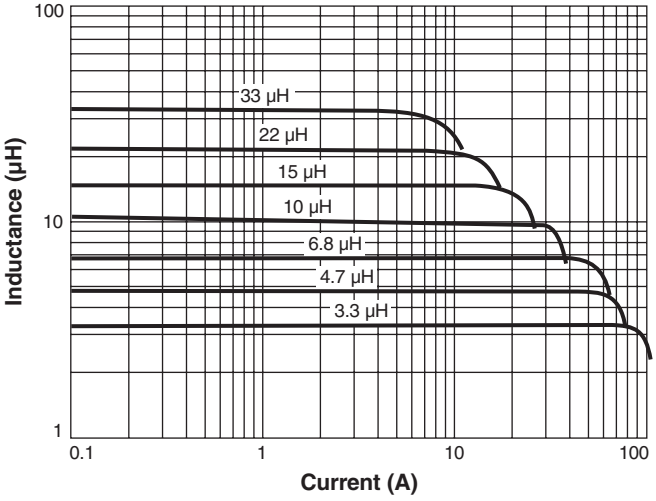
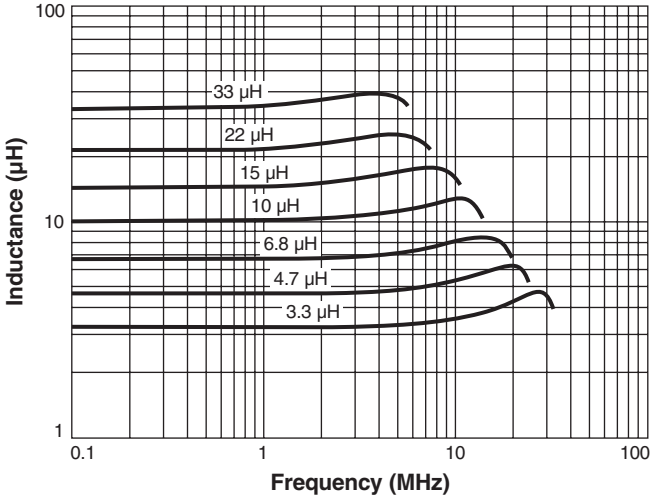
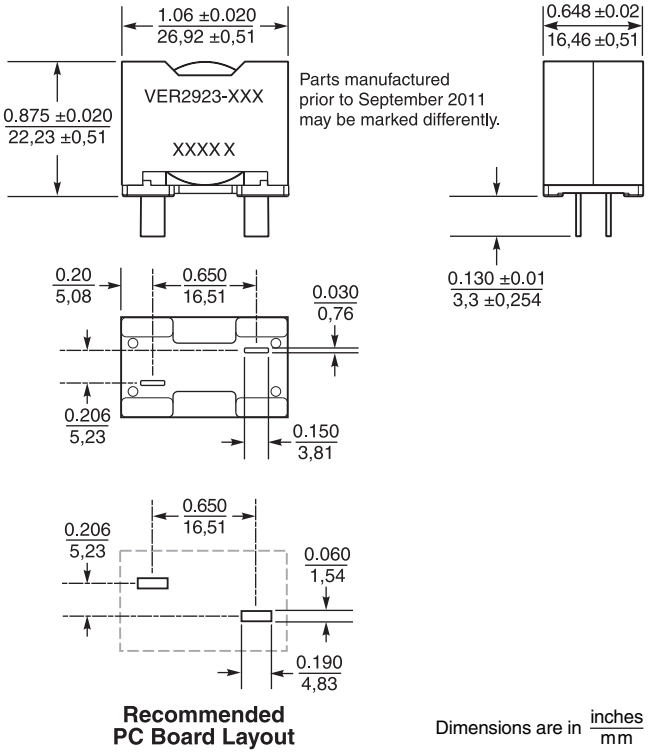
L vs Current



L vs Frequency





Recommended PC Board Layout

Dimensions are in inches / mm

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Specification subject to change without notice.
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