





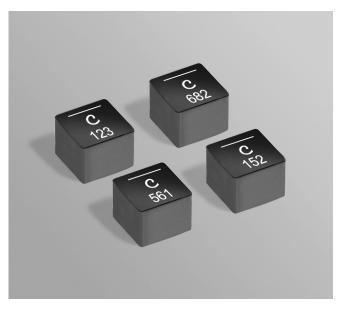




Shielded Power Inductors – XEL6060







- AEC-200 Grade 1 (-40°C to +125°C)
- Extremely low DCR and ultra low AC losses for high switching frequencies (2 to 5 MHz)
- · Superior current handling with soft saturation characteristics
- Can withstand high current spikes

Designer's Kit C466 contains 3 of each value

Core material Composite

Environment RoHS compliant, halogen free

Terminations RoHS compliant tin-silver (96.5/3.5) over copper. Other terminations available at additional cost.

Weight 1.23 - 1.31 g Operating voltage 0 - 80 V

Ambient temperature −40°C to +125°C with (40°C rise) Irms current. Maximum part temperature +165°C (ambient + temp rise). Derating.

Storage temperature Component: -55°C to +165°C.

Tape and reel packaging: -55°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C /

85% relative humidity)

Packaging 250/7"reel; 750/13" reel Plastic tape: 16 mm wide, 0.3 mm thick, 8 mm pocket spacing, 6.23 mm pocket depth PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

	Inductance ²	DCR (mOhms)3		SRF typ ⁴	Isat (A) ⁵			Irms (A) ⁶	
Part number ¹	±20% (µH)	typ	max	(MHz)	10% drop	20% drop	30% drop	20°C rise	40°C rise
XEL6060-331ME_	0.33	1.98	2.20	79.0	13.0	20.0	30.0	23.6	31.8
XEL6060-561ME_	0.56	2.60	2.90	59.0	11.0	17.0	23.0	20.6	27.7
XEL6060-821ME_	0.82	3.03	3.33	52.0	10.6	16.6	20.0	19.1	25.7
XEL6060-102ME_	1.0	3.70	4.07	47.0	9.80	15.3	20.0	17.2	23.2
XEL6060-152ME_	1.5	4.28	4.71	41.0	9.20	14.2	19.0	16.0	21.6
XEL6060-222ME_	2.2	6.10	6.70	33.0	7.60	11.7	16.0	13.4	18.1
XEL6060-272ME_	2.7	6.94	7.63	26.0	6.50	10.0	13.8	12.6	17.0
XEL6060-472ME_	4.7	13.65	15.02	23.0	5.60	8.5	11.4	9.0	12.1
XEL6060-682ME_	6.8	20.82	22.90	16.0	3.60	5.90	7.90	7.3	9.8
XEL6060-822ME_	8.2	22.71	24.98	15.0	3.50	5.70	7.60	7.0	9.4
XEL6060-123ME_	12.0	36.66	40.33	12.0	2.70	4.20	5.80	5.5	7.4

1. When ordering, please specify termination and packaging codes:

XEL6060-123MEC

Termination: E= RoHS compliant tin-silver over copper.

Special order: T = RoHS tin-silver-copper (95.5/4/0.5) or S = non-RoHS tin-lead (63/37).

- Packaging: C= 7" machine-ready reel. EIA-481 embossed plastic tape (250 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).
 - D= 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked
 - **B**= Less than full reel. In an effort to simplify our part numbering system, Coilcraft is eliminating the need for multiple packaging codes. When ordering, simply change the last letter of your part number from B to C.
- 2. Inductance tested at 1 MHz, 0.1 Vrms, 0 Adc.
- 3. DCR measured on a micro-ohmmeter.
- 4. SRF measured using Agilent/HP 4395A or equivalent.
- 5. DC current at 25°C that causes an inductance drop of 30% (typ) from its value without current. Click for temperature derating information.
- 6. Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings. Click for temperature derating information.
- 7. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

Irms Testing

Irms testing was performed on 0.75 inch wide × 0.25 inch thick copper traces in still air.

Temperature rise is highly dependent on many factors including pcb land pattern, trace size, and proximity to other components. Therefore temperature rise should be verified in application conditions.



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HIGH TEMPERATURE

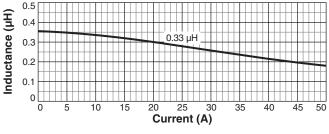
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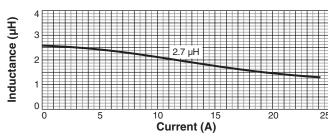


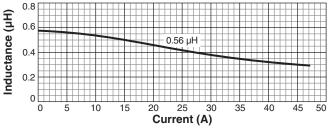


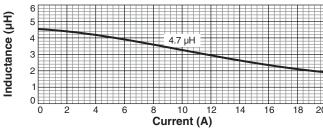


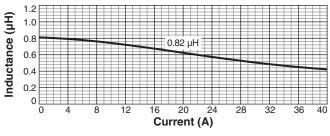


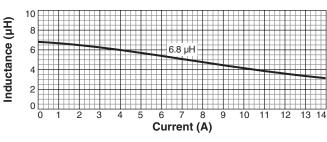


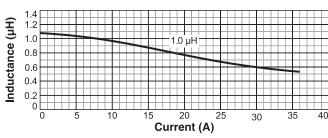


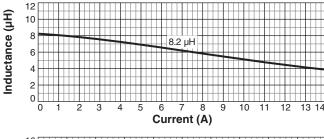


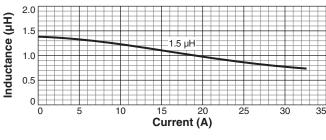


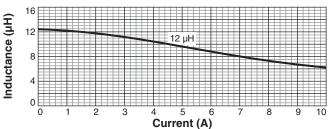


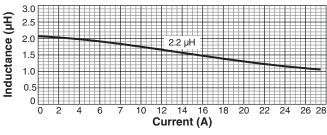














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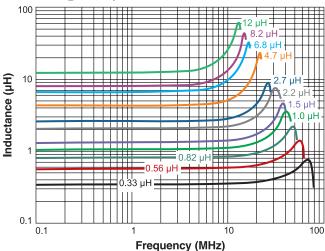


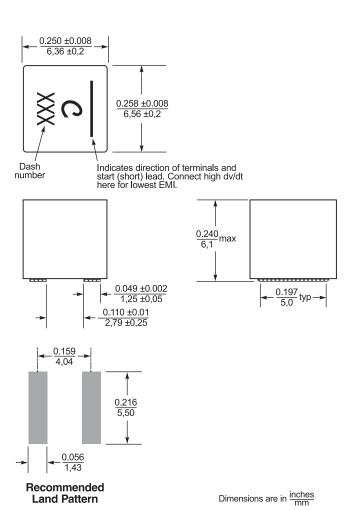


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L vs Frequency







Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Coilcraft:

XEL6060-102MEB	XEL6060-102MEC	XEL6060-102MED	XEL6060-123MEB	XEL6060-123MEC	XEL6060-123MED
XEL6060-822MEB	XEL6060-822MEC	XEL6060-822MED	XEL6060-682MEB	XEL6060-682MEC	XEL6060-682MED
XEL6060-821MEB	XEL6060-821MEC	XEL6060-821MED	XEL6060-472MEB	XEL6060-472MEC	XEL6060-472MED
XEL6060-561MEB	XEL6060-561MEC	XEL6060-561MED	XEL6060-272MEB	XEL6060-272MEC	XEL6060-272MED
XEL6060-331MEB	XEL6060-331MEC	XEL6060-331MED	XEL6060-152MEB	XEL6060-152MEC	XEL6060-152MED
XEL6060-222MEB	XEL6060-222MEC	XEL6060-222MED			