



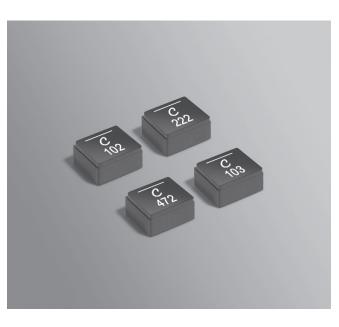


Web

Sample & buy

Shielded Power Inductors - XGL1060





- · Industry's lowest DCR and low power losses
- · High current handling with soft saturation characteristics
- AEC-Q200 Grade 1 (-40°C to +125°C) with a 165°C max part temperature

Designer's Kit C497 contains 3 of each value Core material Composite Core and winding loss See www.coilcraft.com/coreloss Environmental RoHS compliant, halogen free Terminations RoHS compliant tin-silver (96.5/3.5) over copper. Other terminations available at additional cost. Weight 3.6 – 4.0 g Operating voltage: 0 – 60 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) **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% (μΗ)	typ	max	(MHz)	10% drop	20% drop	30% drop	20°C rise	40°C rise
XGL1060-102ME_	1.0	1.7	2.0	39	19.3	33.0	48.0	29.2	39.9
XGL1060-152ME_	1.5	2.5	2.8	32	16.5	28.0	40.0	22.8	31.3
XGL1060-182ME_	1.8	2.8	3.2	28	13.5	23.5	35.0	20.4	28.2
XGL1060-222ME_	2.2	3.8	4.3	25	12.6	21.5	31.0	18.5	25.3
XGL1060-272ME_	2.7	4.3	4.9	23	11.4	19.7	29.0	17.1	23.2
XGL1060-332ME_	3.3	5.0	5.7	21	10.9	18.1	26.0	16.1	22.0
XGL1060-472ME_	4.7	7.5	8.5	18	9.1	15.4	22.5	13.4	18.2
XGL1060-562ME_	5.6	8.9	10.1	16	7.7	13.4	19.7	12.1	16.4
XGL1060-682ME_	6.8	11.0	12.5	14	7.3	12.7	18.4	10.9	14.8
XGL1060-822ME_	8.2	13.3	15.0	13	7.1	11.8	16.9	9.9	13.3
XGL1060-103ME_	10	16.1	18.0	12	6.5	10.9	15.5	9.0	12.1

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

XGL1060-103MĖĊ

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 (150 parts per reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).

 ${f D}=$ 13" machine-ready reel. EIA-481 embossed plastic tape (600 parts per full reel). Factory order only, not stocked.

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 from its value without current.
- 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.



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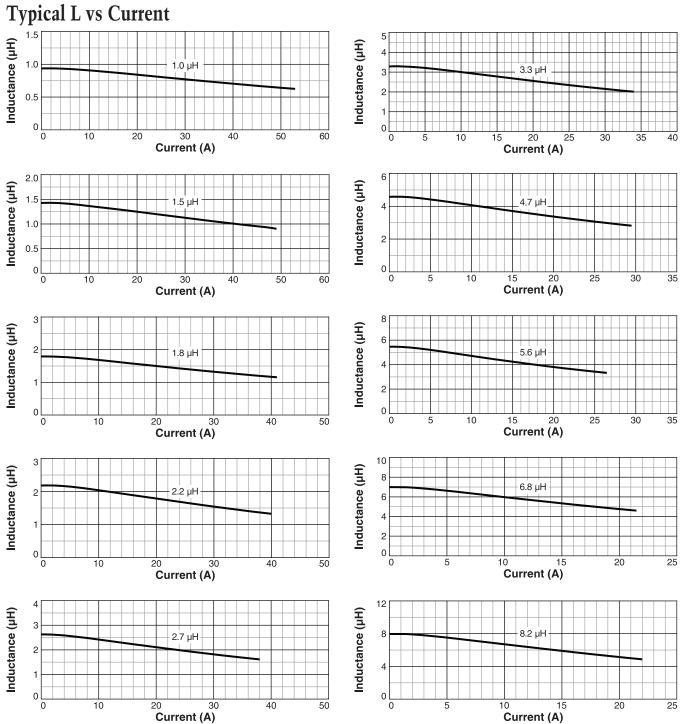
Irms Testing

Irms testing was performed on 0.75 inch wide $\times 0.25$ 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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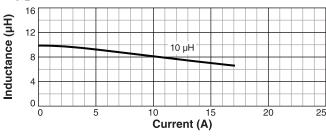
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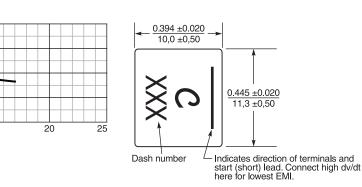


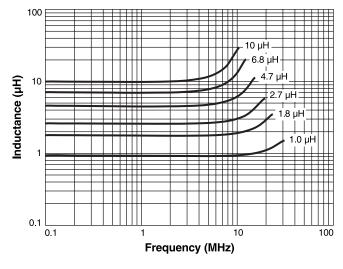
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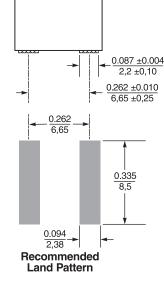
Typical L vs Current

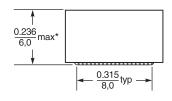
Typical L vs Frequency











* For optional tin-lead and tin-silvercopper terminations, dimensions are for the mounting can be an additional 0.005 inch / 0,13 mm

Dimensions are in $\frac{inches}{mm}$



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