XGL1060-222MEC Datasheet

DiGi Electronics Part Number	XGL1060-222MEC-DG
Manufacturer	Coilcraft
Manufacturer Product Number	XGL1060-222MEC
Description	FIXED IND 2.2UH 25.3A 4.3MOHM SM
Detailed Description	2.2 µH Shielded Molded Inductor 25.3 A 4.3mOhm Max Nonstandard

Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
XGL1060-222MEC	Coilcraft
Series:	Product Status:
XGL1060	Active
Type:	Material - Core:
Molded	Metal Composite
Inductance:	Tolerance:
2.2 µH	±20%
Current Rating (Amps):	Current - Saturation (Isat):
25.3 A	31A
Shielding:	DC Resistance (DCR):
Shielded	4.3mOhm Max
Q @ Freq:	Frequency - Self Resonant:
-	25MHz
Ratings:	Operating Temperature:
AEC-Q200	-40°C ~ 125°C
Inductance Frequency - Test:	Features:
1 MHz	-
Mounting Type:	Package / Case:
Surface Mount	Nonstandard
Supplier Device Package:	Size / Dimension:
-	0.445" L x 0.394" W (11.30mm x 10.00mm)
Height - Seated (Max):	
0.236" (6.00mm)	

Environmental & Export classification

RoHS Status:	ECCN:
ROHS3 Compliant	EAR99
HTSUS:	
8504.50.8000	

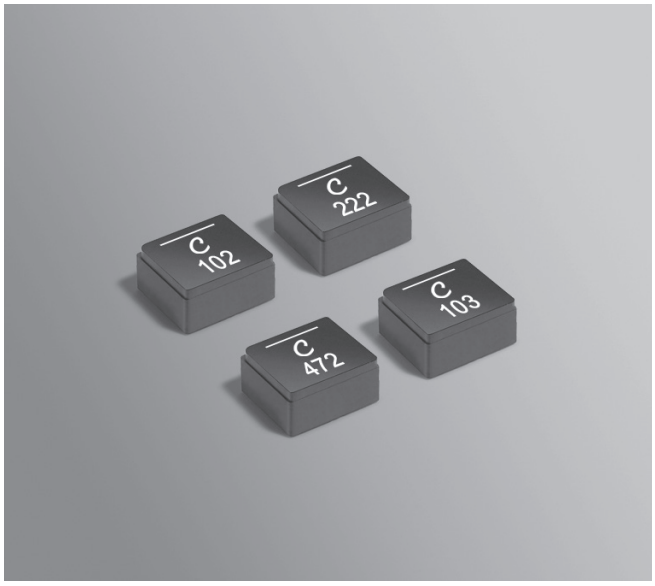
NEW!

Shielded Power Inductors – XGL1060

RoHS/ REACH COMPLIANT

Halogen Free

AEC Q200 +125°C



- 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.

Part number[1]	Inductance[2] ±20% (µH)	DCR (mOhms)[3] typ	DCR (mOhms)[3] max	SRF typ[4] (MHz)	Isat (A)[5] 10% drop	Isat (A)[5] 20% drop	Isat (A)[5] 30% drop	Irms (A)[6] 20°C rise	Irms (A)[6] 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:

XGL1060-103MEC

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).
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.
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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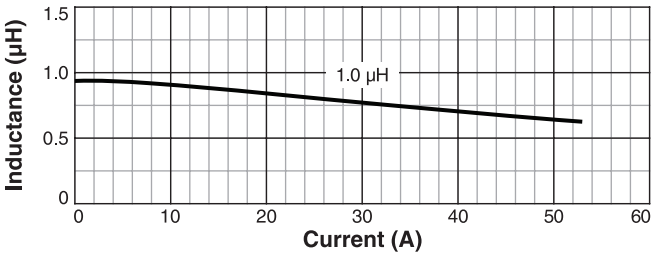
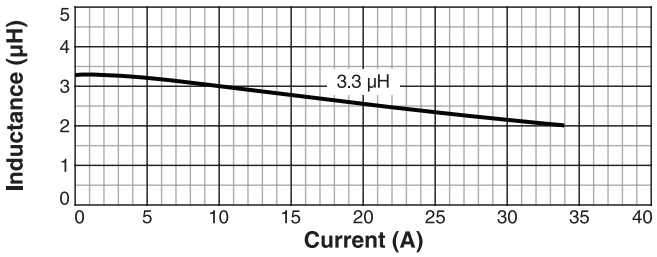
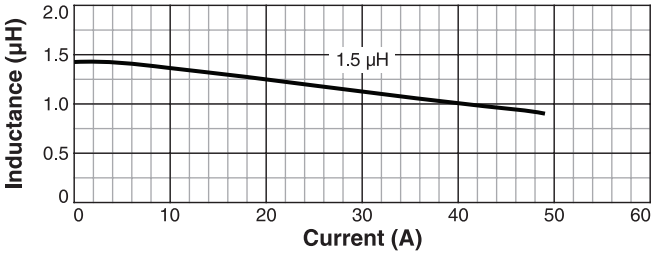
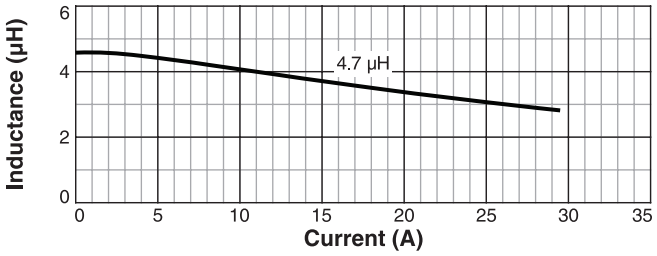
Shielded Power Inductors – XGL1060

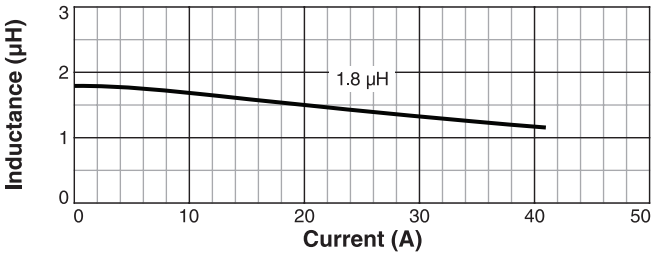
Typical L vs Current

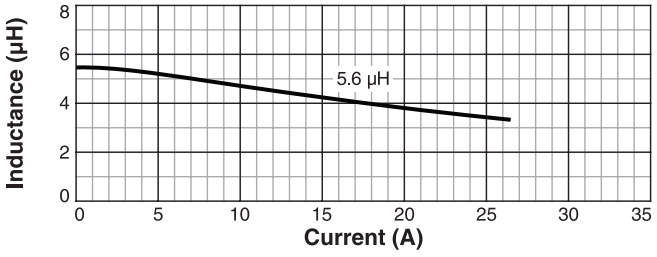


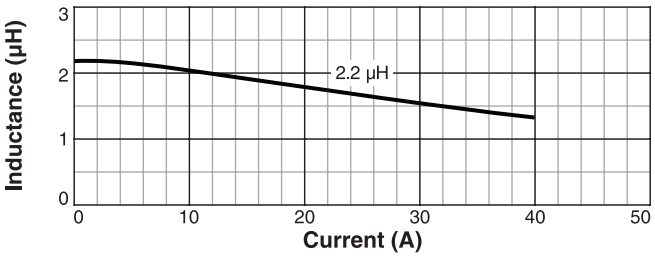


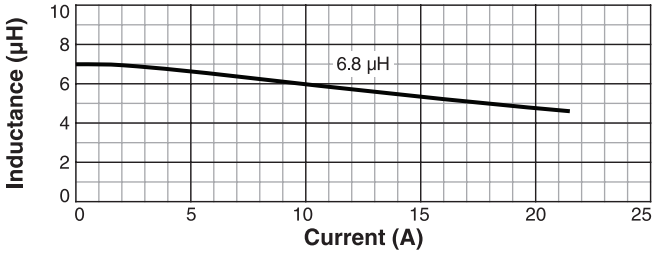


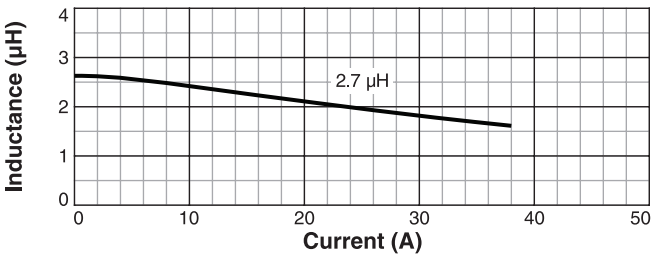


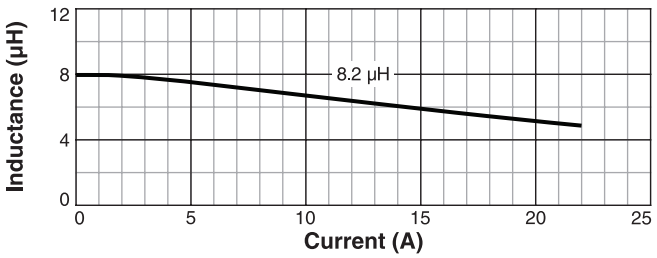












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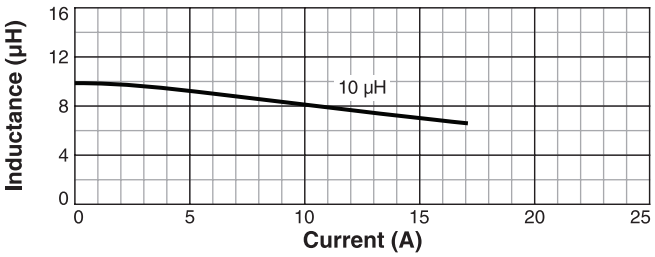
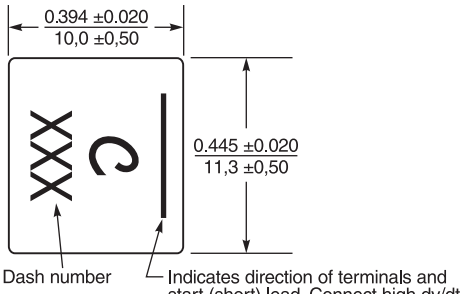
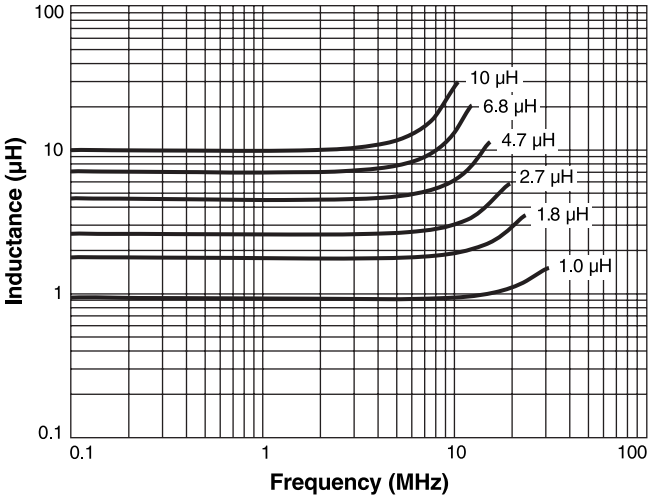
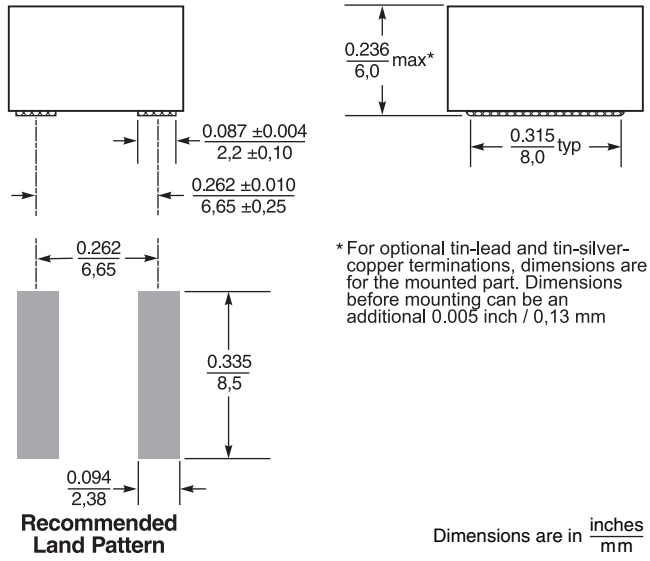
Typical L vs Current





Typical L vs Frequency





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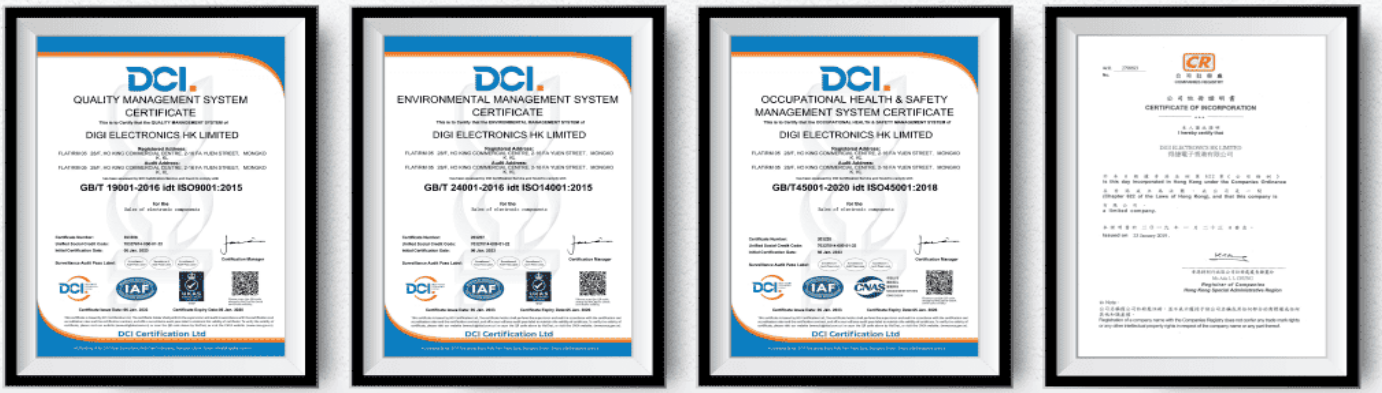

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