RoHS/ REACH COMPLIANT

Halogen Free

AEC Q200 +125°C

Shielded Power Inductors AGM2222



- 75% smaller than previous generation
- Very low DCR maintains high efficiency
- Soft saturation with high current handling capability
- Magnetic shielding reduces power losses at high frequency
- Ideal for Bi-directional 12 V – 48 V DC-DC converters
- AEC-Q200 qualified

Environmental RoHS compliant, halogen free
Terminations RoHS compliant tin-silver over copper
Core material Powdered iron
Weight 46 – 51 g
Ambient temperature –40°C to +125°C with Irms current
Maximum part temperature +165°C (ambient + temp rise)
Storage temperature Component: –40°C to +165°C. Tray packaging: –40°C to +80°C
Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)
Packaging 42 parts per tray
PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

Part number	Inductance[1] ±20% (µH)	DCR (mOhms)[2] typ	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
AGM2222-192ME	1.9	0.62	0.80	65.0	49.0	81.5	110.0	37.0	54.0
AGM2222-222ME	2.2	0.62	0.80	62.0	35.0	60.0	84.0	37.0	54.0
AGM2222-282ME	2.8	0.74	0.85	46.0	41.0	66.5	93.5	33.0	47.0
AGM2222-322ME	3.2	0.74	0.85	45.8	29.0	50.0	71.0	33.0	47.0
AGM2222-392ME	3.9	0.77	0.90	34.0	35.0	57.5	80.0	32.0	45.0
AGM2222-432ME	4.3	0.77	0.90	35.0	23.0	40.0	57.0	32.0	45.0
AGM2222-512ME	5.1	1.10	1.40	33.0	31.0	50.0	71.0	28.0	40.0
AGM2222-562ME	5.6	1.10	1.40	29.5	22.0	38.0	55.0	28.0	40.0
AGM2222-652ME	6.5	1.47	1.80	29.0	27.5	44.0	62.0	25.0	35.0
AGM2222-712ME	7.1	1.47	1.80	29.0	18.0	32.0	46.0	25.0	35.0
AGM2222-802ME	8.0	1.70	2.00	24.5	24.5	40.0	56.0	22.0	32.0
AGM2222-882ME	8.8	1.70	2.00	24.5	17.0	29.0	42.0	22.0	32.0
AGM2222-103ME	10.0	2.08	2.50	23.0	15.0	26.0	37.0	21.0	30.0

1. Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc.
2. DCR measured on a micro-ohmmeter.
3. SRF measured using Agilent/HP 4395A or equivalent.
4. DC current at 25°C that causes the specified inductance drop from its value without current. Click for temperature derating information.
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.
6. Electrical specifications at 25°C.

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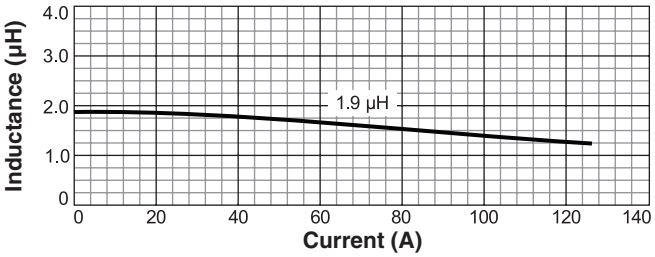
RoHS/ REACH COMPLIANT

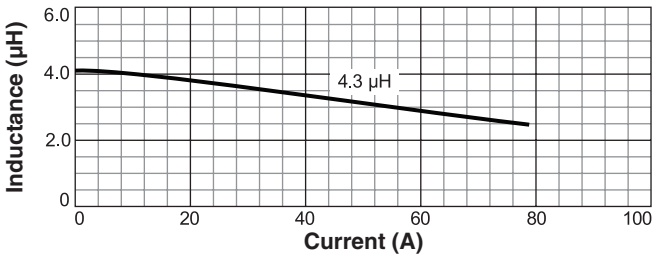
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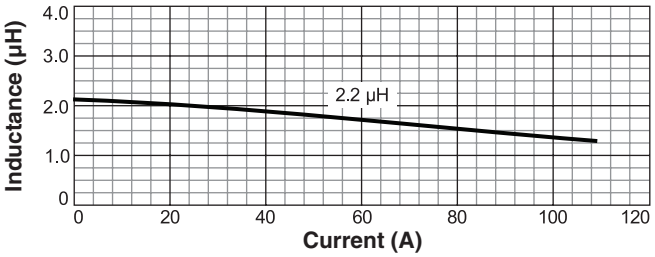
AEC Q200 +125°C

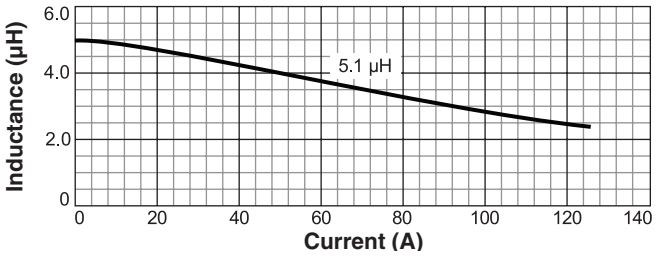
AGM2222 Shielded Power Inductors

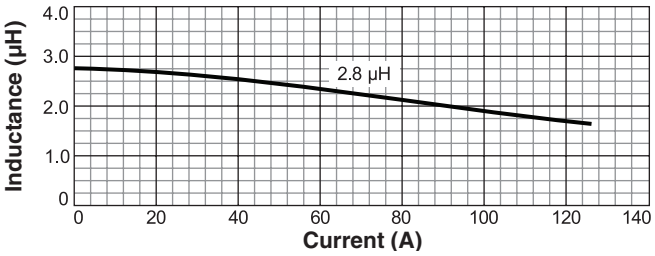
L vs Current

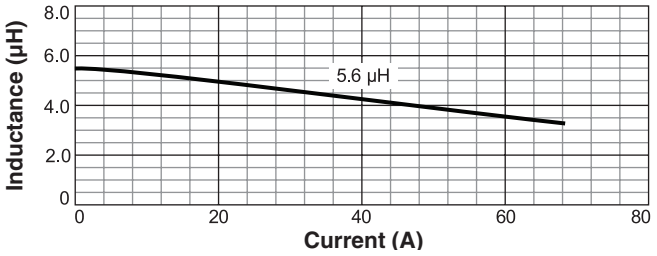


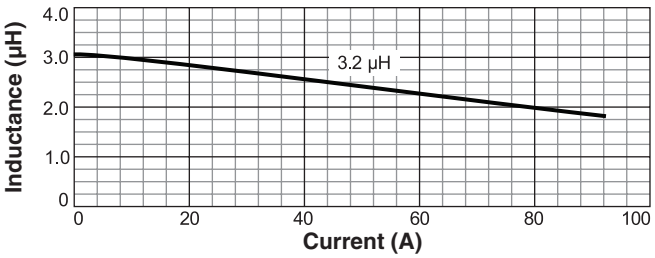


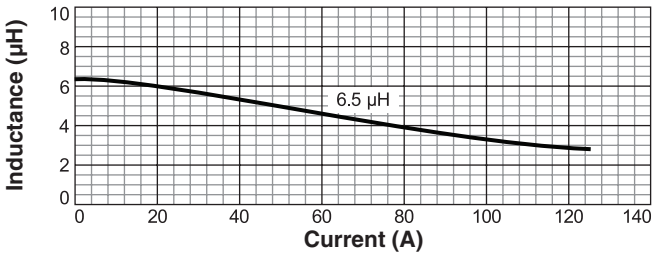


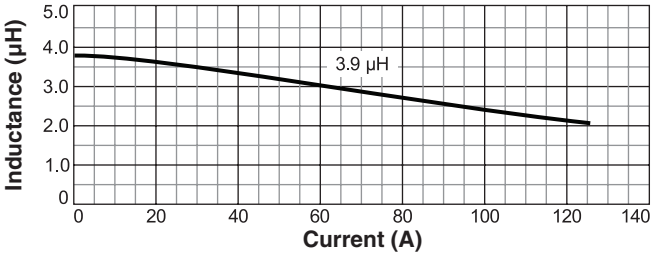


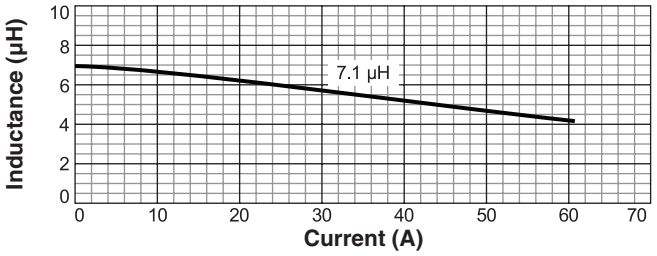












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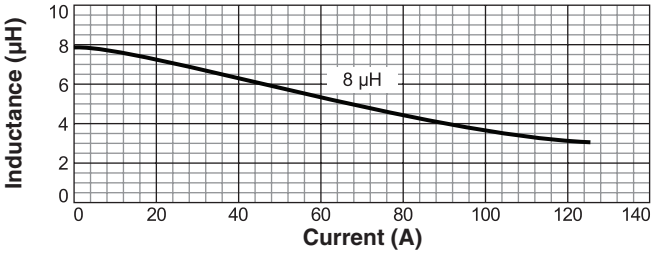
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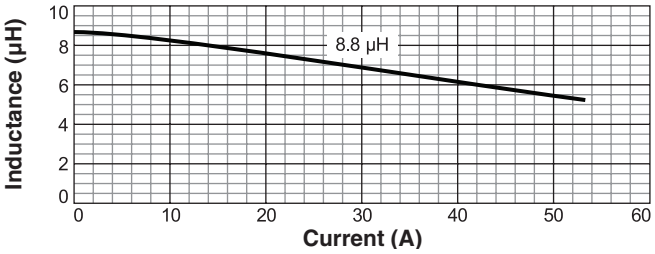
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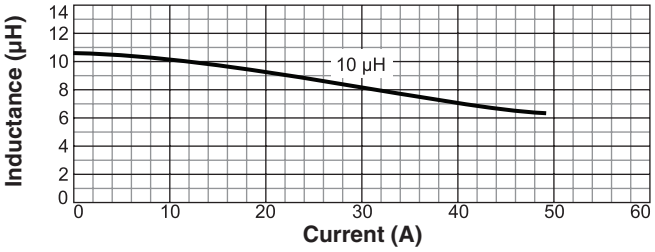
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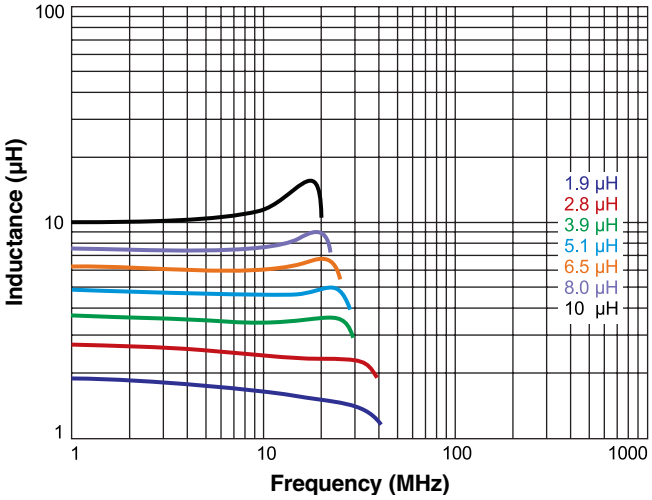
L vs Current

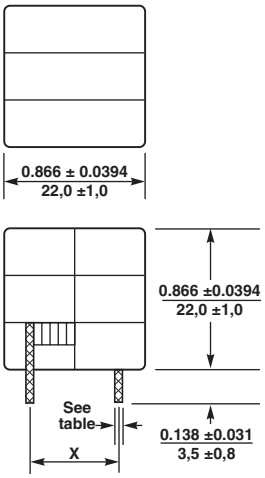


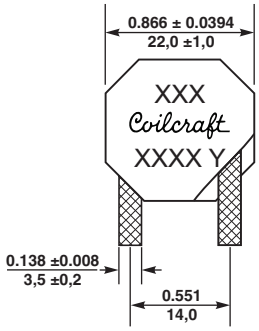


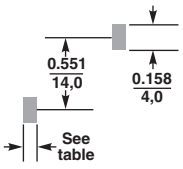


L vs Frequency









Recommended PC Board Layout

X-Lead Centers ±0.020/0,5 (in/mm)	Dash number	Terminal dimension ±0.008/0,203 (in/mm)	Through hole dimension (in/mm)
0.562/14.3	-192	0.098/2,5	0.118/3,0
0.562/14.3	-222	0.098/2,5	0.118/3,0
0.562/14.3	-282	0.079/2,0	0.10/2,54
0.562/14.3	-322	0.079/2,0	0.10/2,54
0.562/14.3	-392	0.079/2,0	0.10/2,54
0.562/14.3	-432	0.079/2,0	0.10/2,54
0.579/14,7	-512	0.069/1,75	0.089/2,25
0.579/14,7	-562	0.069/1,75	0.089/2,25
0.579/14,7	-652	0.059/1,5	0.079/2,0
0.579/14,7	-712	0.059/1,5	0.079/2,0
0.602/15,3	-802	0.053/1,35	0.073/1,85
0.602/15,3	-882	0.053/1,35	0.073/1,85
0.602/15,3	-103	0.047/1,2	0.067/1,7

Dimensions are in inches / mm

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