

NEW!

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 Grade 1 qualified (-40°C to +125°C ambient)

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)

Failures in Time (FIT) / Mean Time Between Failures (MTBF)

38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

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		SRF typ ³ (MHz)	Isat (A) ⁴			Irms (A) ⁵	
		typ	max		10% drop	20% drop	30% drop	20°C rise	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 an inductance drop of 30% (typ) 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.

6. Electrical specifications at 25°C.

Coilcraft
www.coilcraft.com

US +1-847-639-6400 sales@coilcraft.com
UK +44-1236-730595 sales@coilcraft-europe.com
Taiwan +886-2-2264 3646 sales@coilcraft.com.tw
China +86-21-6218 8074 sales@coilcraft.com.cn
Singapore +65-6484 8412 sales@coilcraft.com.sg

Document 1502-1 Revised 05/07/19

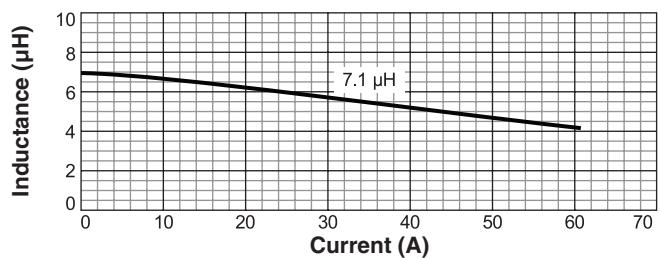
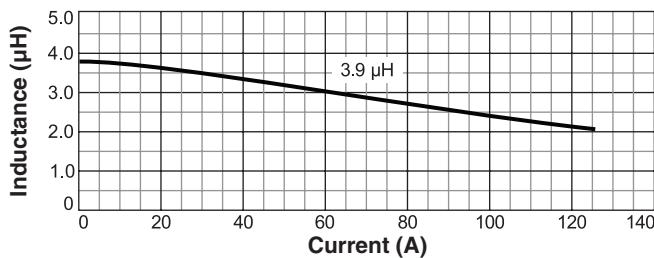
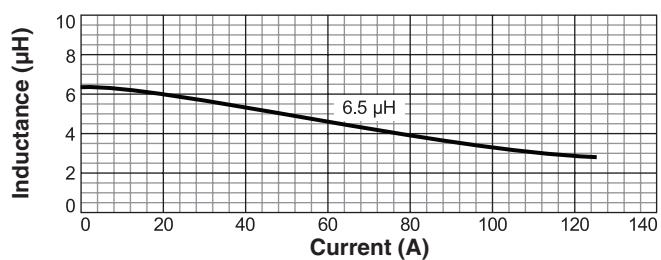
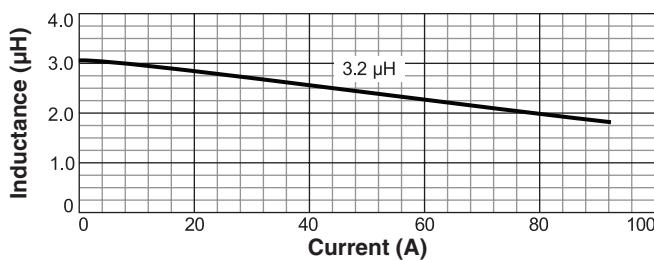
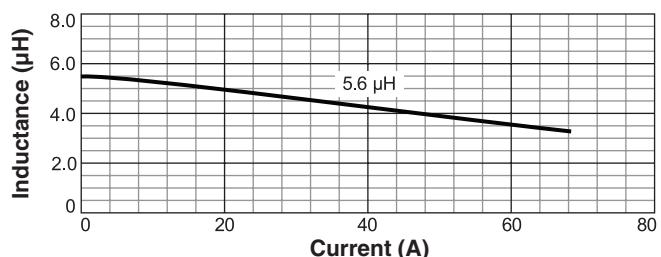
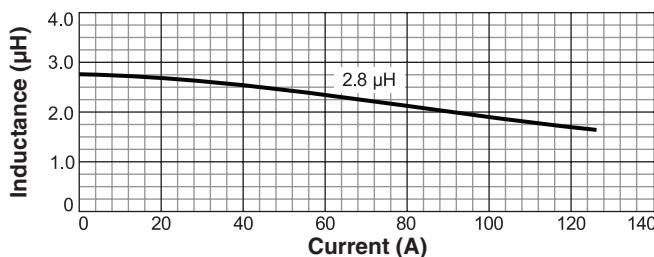
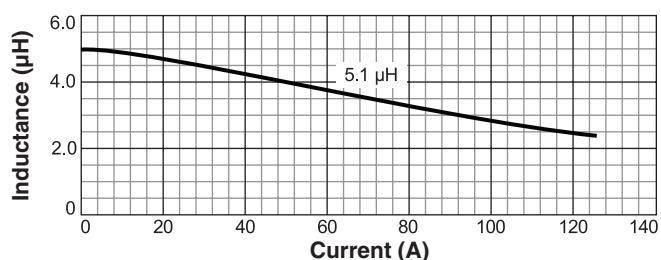
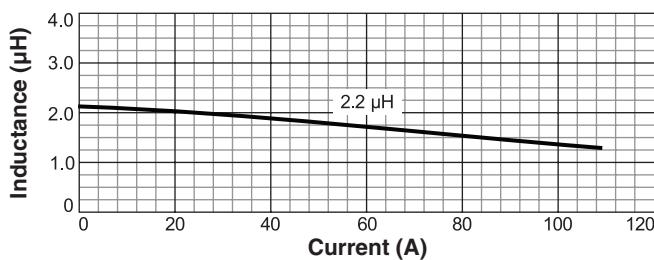
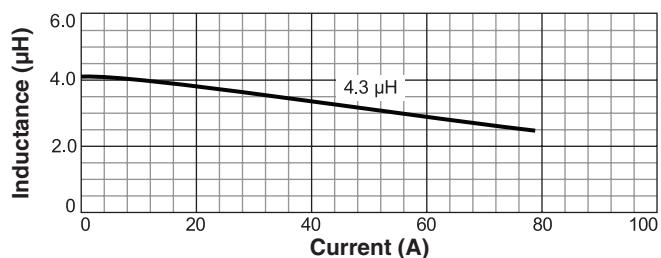
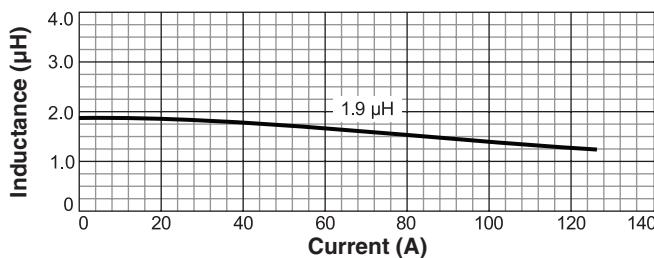
© Coilcraft Inc. 2019

This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.



AGM2222 Shielded Power Inductors

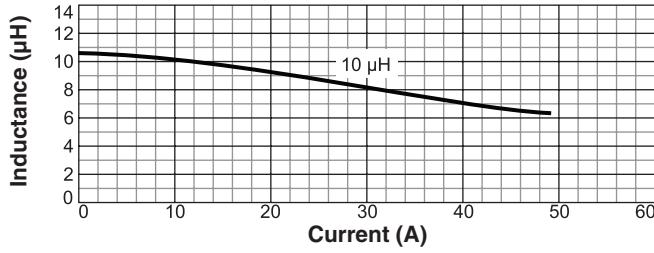
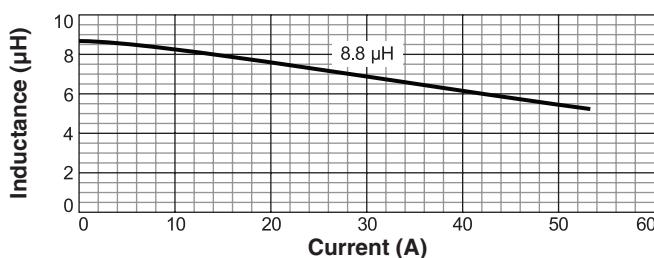
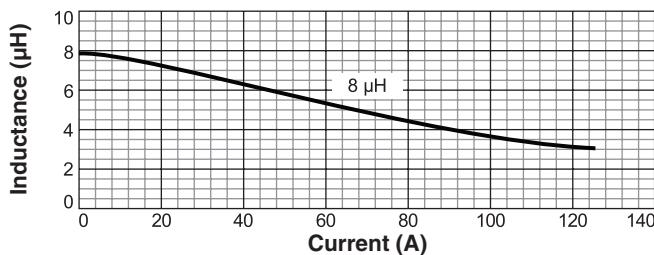
L vs Current



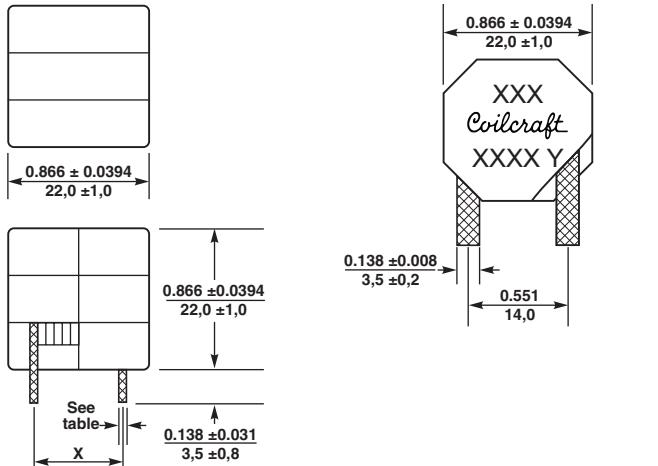
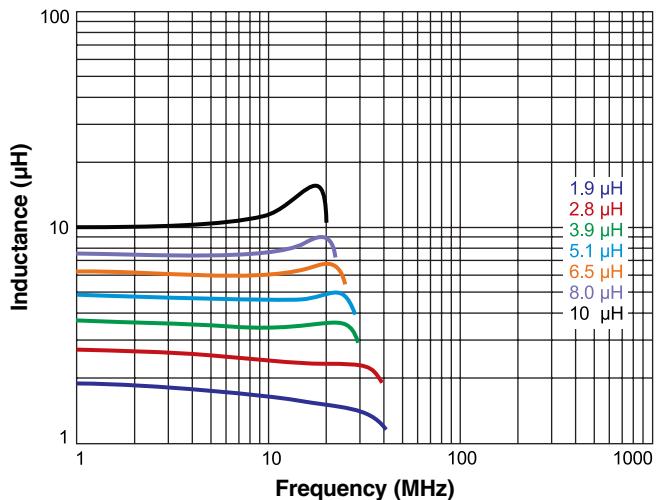


AGM2222 Shielded Power Inductors

L vs Current



L vs Frequency



X-Lead Centers $\pm 0.020/0.5$ (in/mm)	Dash number	Terminal dimension $\pm 0.008/0.203$ (in/mm)	Through hole dimension $\pm 0.067/1.75$ (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 $\frac{\text{inches}}{\text{mm}}$



www.coilcraft.com

US +1-847-639-6400 sales@coilcraft.com
 UK +44-1236-730595 sales@coilcraft-europe.com
 Taiwan +886-2-2264 3646 sales@coilcraft.com.tw
 China +86-21-6218 8074 sales@coilcraft.com.cn
 Singapore +65-6484 8412 sales@coilcraft.com.sg

Document 1502-3 Revised 05/07/19

© Coilcraft Inc. 2019

This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.