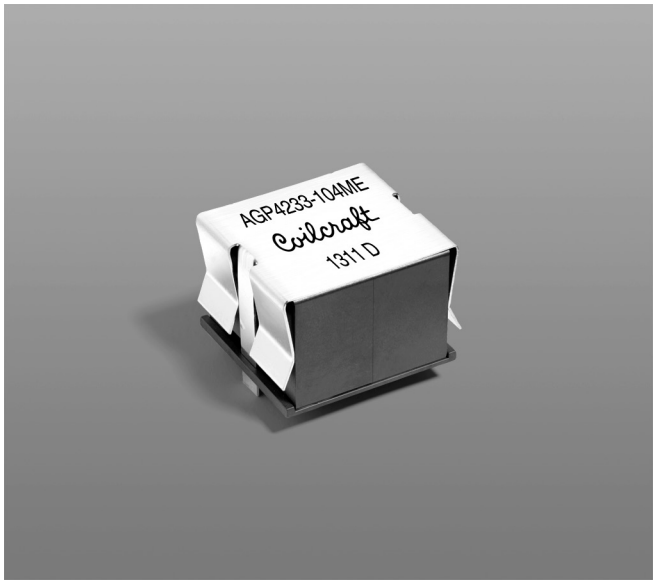
TH Power Inductors – AGP4233



- AEC-Q200 Grade 1 qualified (–40°C to +125°C ambient)
- High current, high inductance power inductors designed for high current power supply applications
- Flat wire windings provide extremely low DC and AC resistance.
- Through-hole mounting for excellent board adhesion
- Cover has solderable tabs for additional mounting stability.

Core material Ferrite
Core and winding loss See www.coilcraft.com/coreloss
Environmental RoHS compliant, halogen free
Terminations RoHS compliant tin-silver over copper
Shield tabs RoHS compliant bright tin over nickel over stainless steel
Weight 135 g
Ambient temperature –40°C to +125°C with Irms current, +125°C to +165°C with derated current
Storage temperature Component: –40°C to +85°C.
Tray packaging: –40°C to +80°C
Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)
Packaging 9 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] nom	DCR (mOhms)[2] max	SRF typ (MHz)	Isat (A)[3] 10% drop	Isat (A)[3] 20% drop	Isat (A)[3] 30% drop	Irms (A)[4] 20°C rise	Irms (A)[4] 40°C rise
AGP4233-332ME	3.3	0.67	0.75	27.7	92.0	95.0	98.0	34	44
AGP4233-562ME	5.6	0.67	0.75	22.8	63.0	65.0	67.0	34	44
AGP4233-682ME	6.8	2.80	2.95	21.7	92.0	97.8	101.8	24	34
AGP4233-103ME	10	2.80	2.95	18.8	56.0	60.0	63.0	24	34
AGP4233-153ME	15	2.80	2.95	15.2	45.0	47.0	49.0	24	34
AGP4233-223ME	22	2.80	2.95	12.0	32.8	35.4	36.6	24	34
AGP4233-333ME	33	2.80	2.95	10.0	22.5	24.7	25.8	24	34
AGP4233-473ME	47	2.80	2.95	8.5	16.0	17.6	18.6	24	34
AGP4233-683ME	68	2.80	2.95	6.4	10.6	12.2	13.0	24	34
AGP4233-104ME	100	2.80	2.95	5.2	6.88	7.80	8.36	24	34
AGP4233-154ME	150	2.80	2.95	4.2	4.18	4.96	5.40	24	34
AGP4233-224ME	220	10.9	11.55	5.0	6.40	7.20	7.60	12.4	17.5
AGP4233-334ME	330	10.9	11.55	4.1	4.60	5.20	5.60	12.4	17.5
AGP4233-474ME	470	10.9	11.55	3.6	3.00	3.60	3.80	12.4	17.5

1. Inductance tested at 100 kHz, 0.1 Vrms on Agilent/HP 4192A.
2. DCR measured on a Keithley 580 micro-ohmmeter or equivalent.
3. DC current at which the inductance drops the specified amount from its value without current.
   Click for temperature derating information.
4. Current that causes the specified temperature rise of the winding from 25°C ambient.
   This information is for reference only and does not represent absolute maximum ratings.
   Click for temperature derating information
   Temperature rise of the core is usually less than that of the winding.
   When Irms is greater than Isat, Isat is the more critical specification and Irms is shown in gray type.
5. Electrical specifications at 25°C.

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

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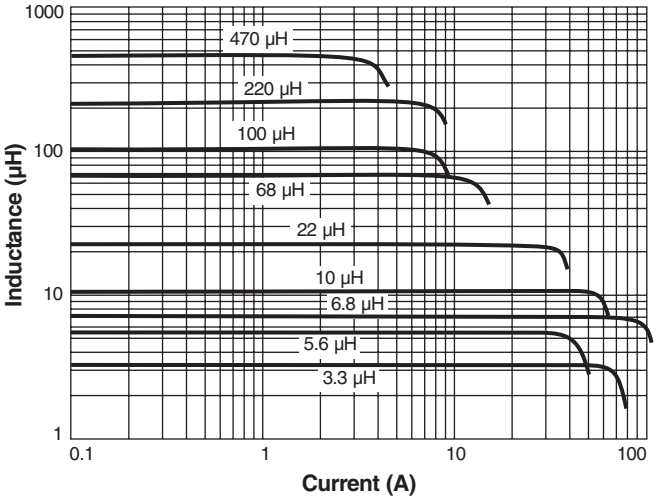
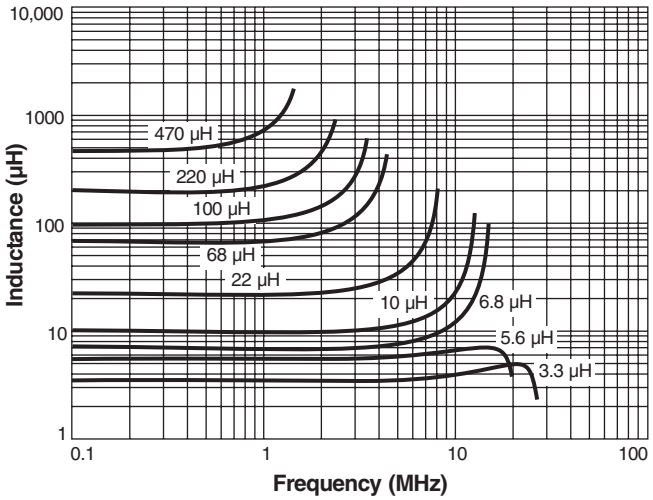
TH Power Inductors – AGP4233 Series

Typical L vs Current



Typical L vs Frequency



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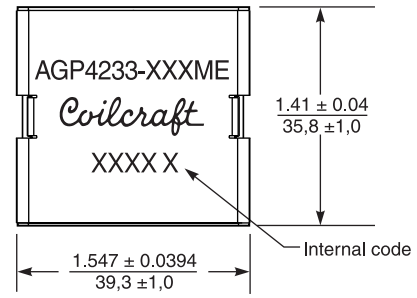
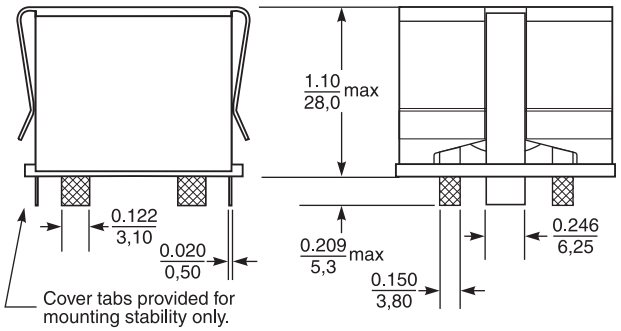
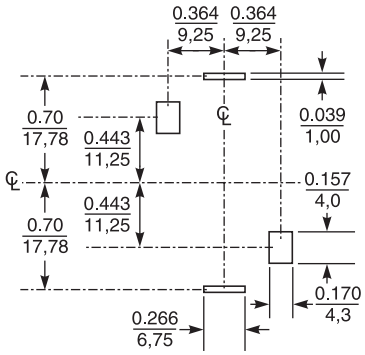
3.3 – 5.6 µH



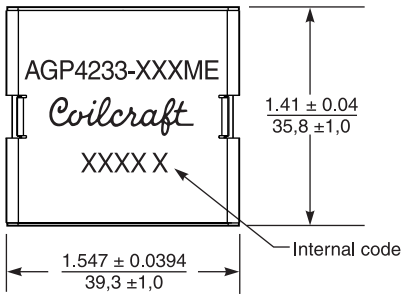


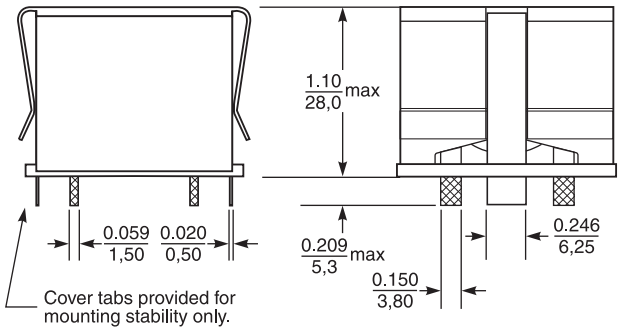


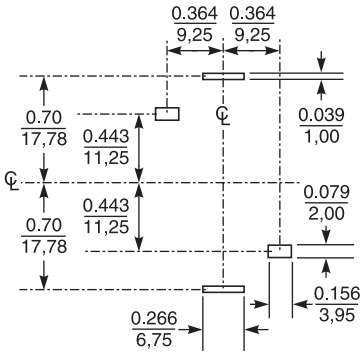
Dimensions are in inches / mm

Recommended PC board slot layout

6.8 – 150 µH







Dimensions are in inches / mm

Recommended PC board slot layout

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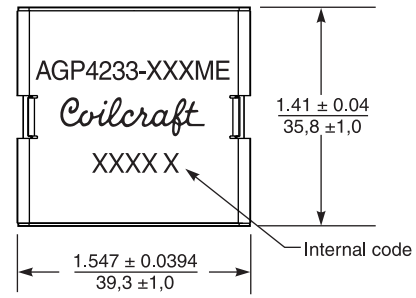
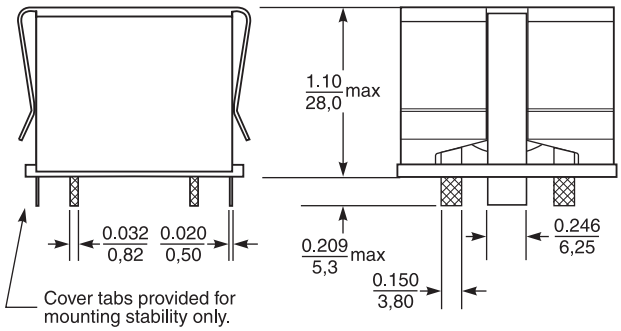
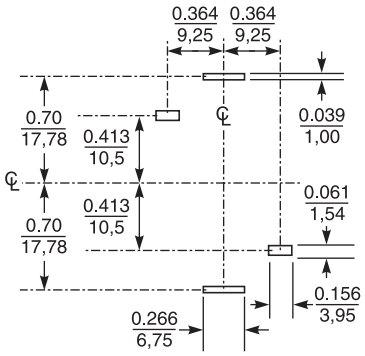
220 – 470 µH







Dimensions are in inches / mm

Recommended PC board slot layout

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