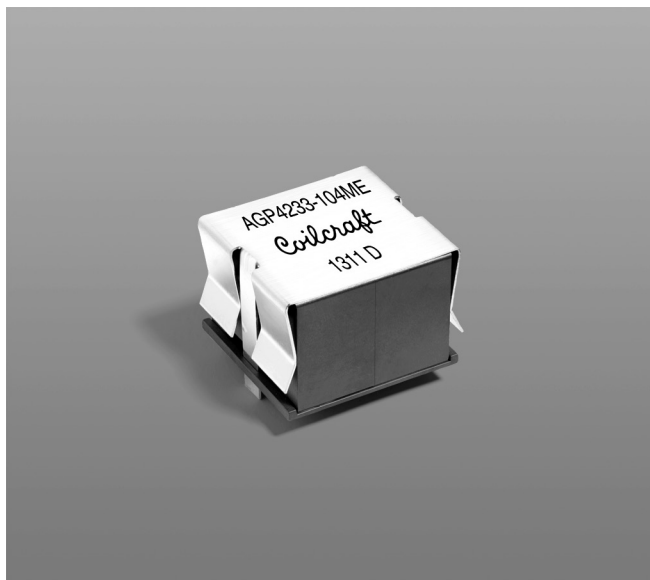




Power Inductors – AGP4233



- High current, high inductance power inductors
- Designed for high current power supply applications
- Flat wire windings provide extremely low DC and AC resistance.
- Shield has solderable tabs for additional mounting stability.

Core material Ferrite

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)

Failures in Time (FIT) / Mean Time Between Failures (MTBF)
38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

Packaging 9 parts per tray

PCB washing Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf

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

4. Current that causes the specified temperature rise of the winding from 25°C ambient.

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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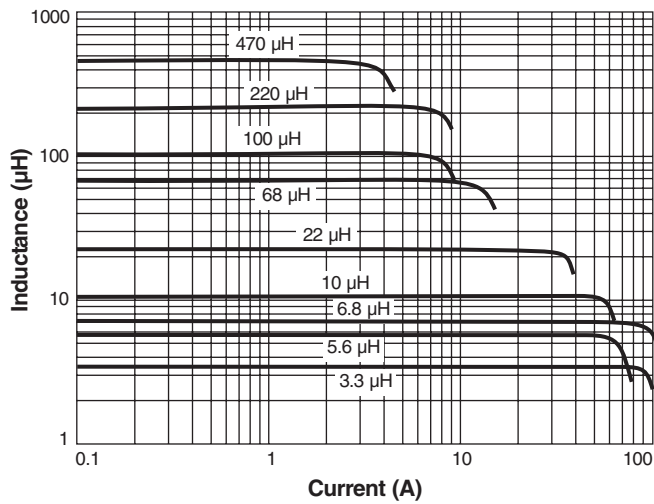
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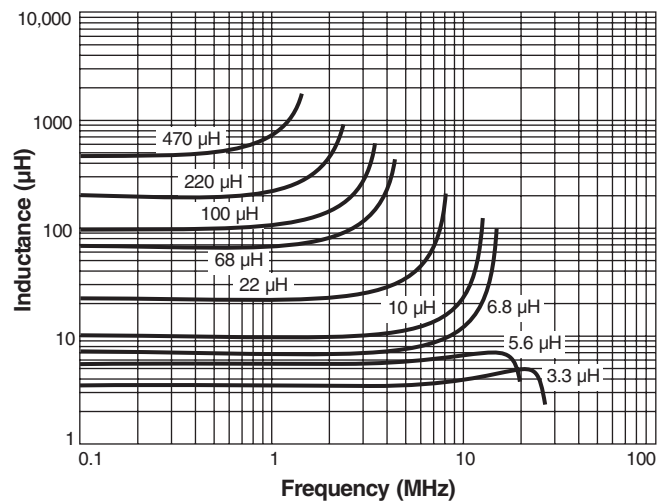


Power Inductors – AGP4233 Series

Typical L vs Current



Typical L vs Frequency



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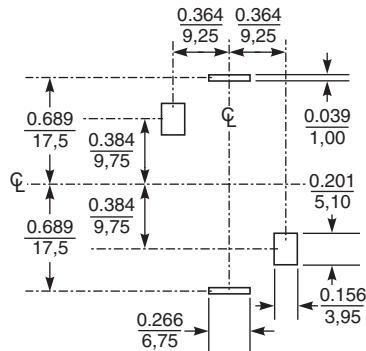
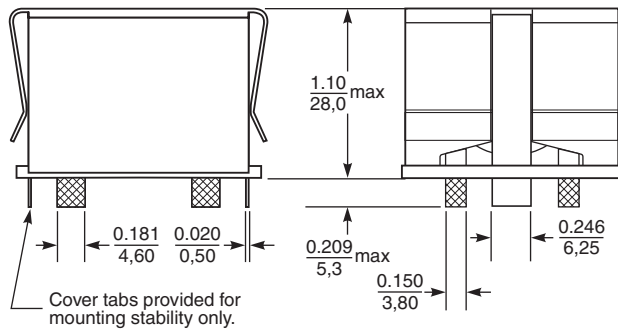
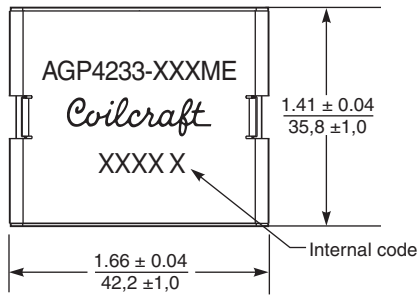
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Power Inductors – AGP4233 Series

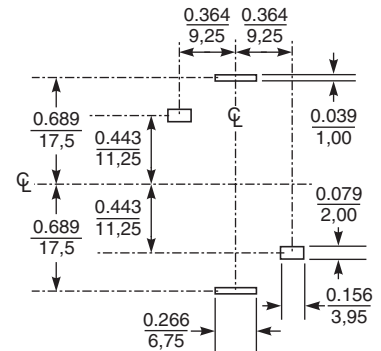
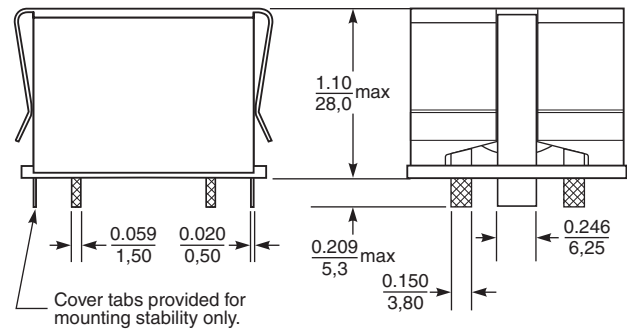
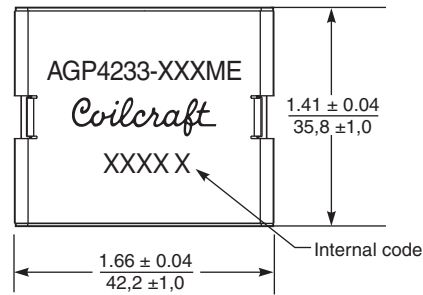
3.3 – 5.6 μH



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

**Recommended
PC board layout**

6.8 – 150 μH



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

**Recommended
PC board layout**



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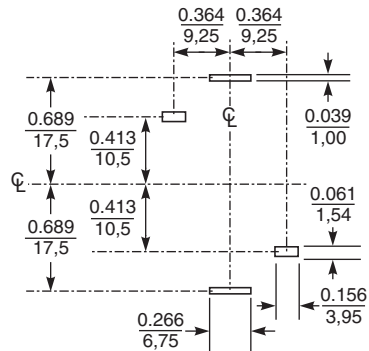
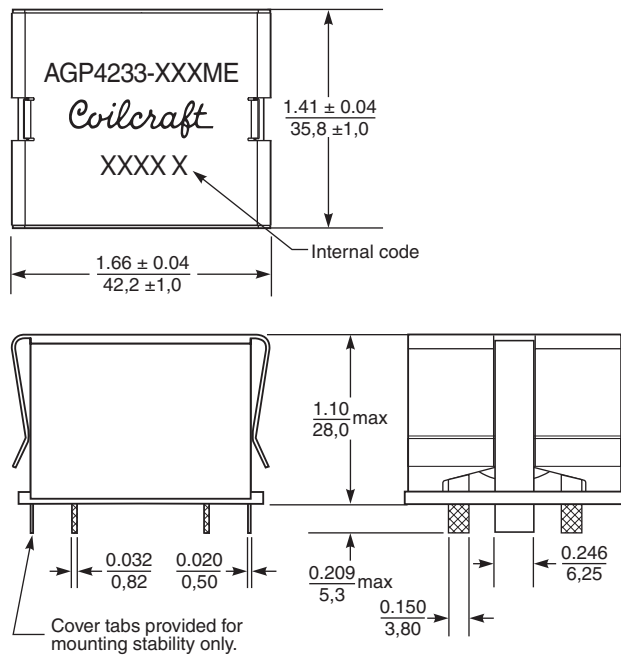
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Power Inductors – AGP4233 Series

220 – 470 μ H



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

**Recommended
PC board layout**



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