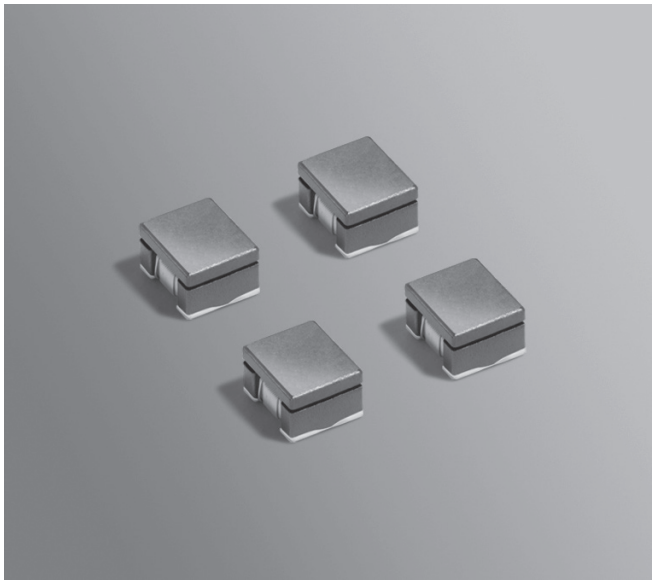
NEW!

Power Injection Chokes for PoC 1210POCB

RoHS/ REACH COMPLIANT

Halogen Free

AEC Q200 +125°C



- Small size to reduce board area of overall system solutions, with a low profile of only 2.0 mm
- High impedance (≥ 1kOhm) maintained over a wide band frequency range to isolate AC signal from the DC power
- AEC-Q200 qualified

Core material Ferrite

Environmental RoHS compliant, halogen free

Terminations RoHS compliant matte tin over nickel over silver-platinum-glass frit.

Weight 115 – 125 mg

Ambient temperature –40°C to +125°C with Irms current.

Maximum part temperature +140°C (ambient + temp rise).

Storage temperature Component: –40°C to +140°C. Tape and reel packaging: –40°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)

Packaging 750/7″ reel; 3000/13″ reel; Plastic tape: 12 mm wide, 0.23 mm thick, 8 mm pocket spacing, 2.03 mm pocket depth

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

Part number[1]	L[2] ±20% (µH)	DCR (Ohms)[3] typ	DCR (Ohms)[3] max	SRF typ[4] (MHz)	Isat (mA)[5] 25°C	85°C	105°C	125°C	140°C	Irms typ (mA) at 25°C[6]	at 85°C[7]	at 125°C[8]
1210POCB-222MR_	2.2	0.080	0.100	300	1600	1300	1200	1100	1000	2000	1800	800
1210POCB-682MR_	6.8	0.170	0.210	120	840	720	690	620	610	1300	1200	700
1210POCB-103MR_	10	0.220	0.268	90	720	630	570	520	460	1200	1100	630
1210POCB-153MR_	15	0.360	0.440	80	610	520	480	440	410	960	870	500
1210POCB-223MR_	22	0.700	0.860	70	520	450	430	410	390	660	600	330

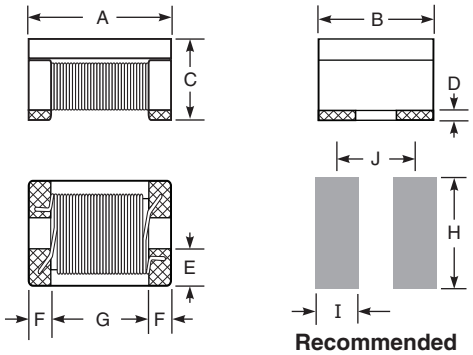
1. When ordering, please specify **packaging** code:

   1210POCB-223MRC

   Packaging: **C** = 7″ machine-ready reel. EIA-481 embossed plastic tape (750 parts per full 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 (3000 parts per full reel). Factory order only, not stocked.
2. Inductance tested at 100 kHz, 0.1 Vrms, 200 mA using HP4263 with SMD-B test fixture or equivalent
3. DCR is measured on a Keithley 580 Micro-ohmmeter (or equivalent) with a Coilcraft CCF858 or CCF 987 test fixture.
4. SRF measured using an Agilent/HP 5071C network analyzer and a Coilcraft SMD-D test fixture.
5. DC current that causes 30% inductance drop from its initial value at 200 mA at specified temperature.
6. Current that causes a 40°C rise at 25°C.
7. Current that causes a 40°C rise at 85°C.
8. Current that causes a 15°C rise at 125°C.
9. Electrical specifications at 25°C.

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

Dimensions – 1210POCB



Recommended Land Pattern

A max	B max	C max	D	E	F	G	H	I	J	
0.13	0.105	0.079	0.004	0.037	0.020	0.080	0.104	0.026	0.100	in
3,30	2,67	2,00	0,10	0,94	0,51	2,03	2,65	0,65	2,54	mm

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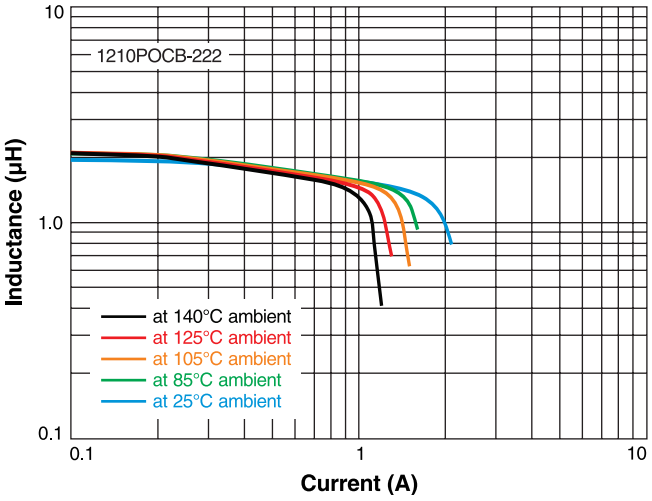
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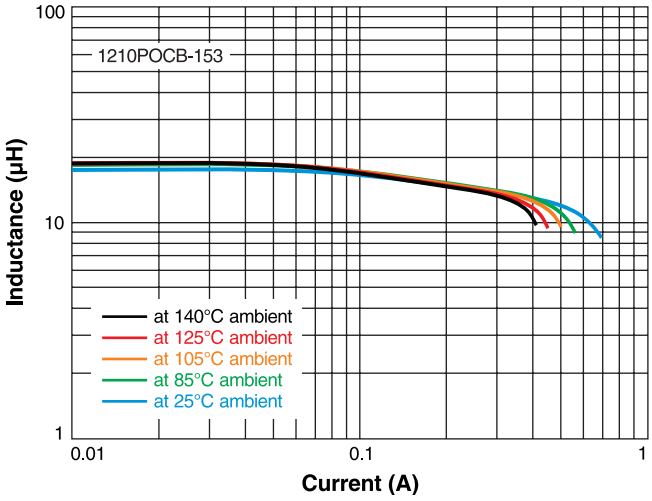
Document 1781-1 Revised 04/15/25

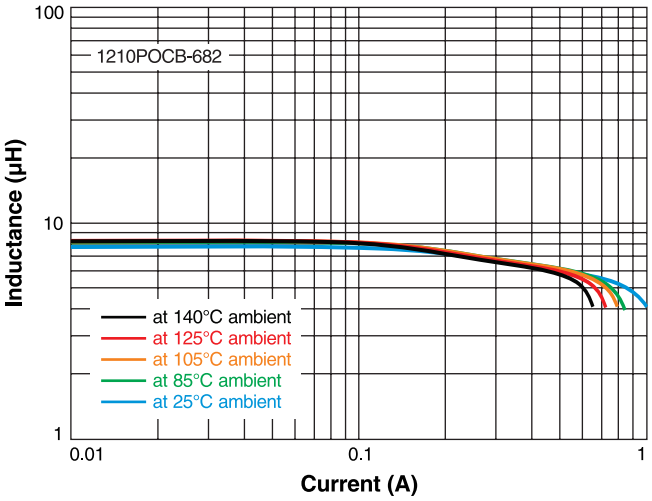
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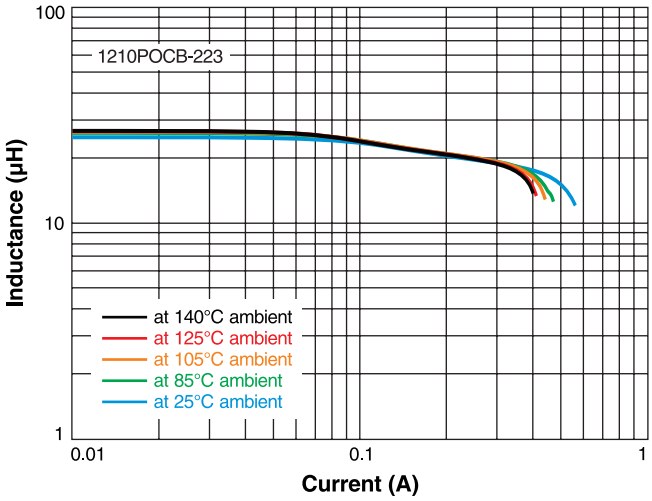
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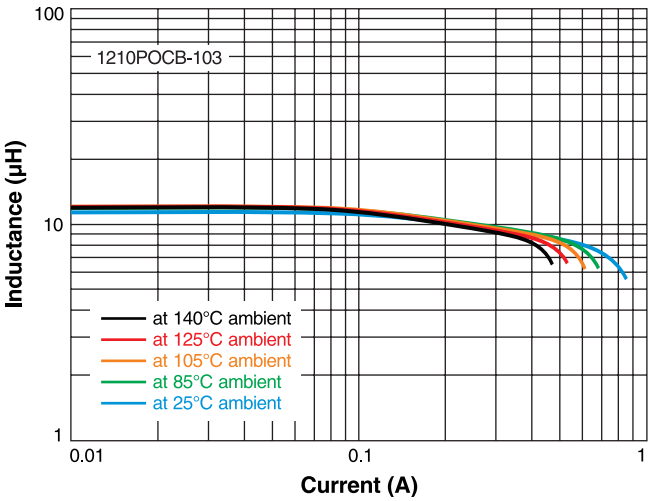
L vs Current











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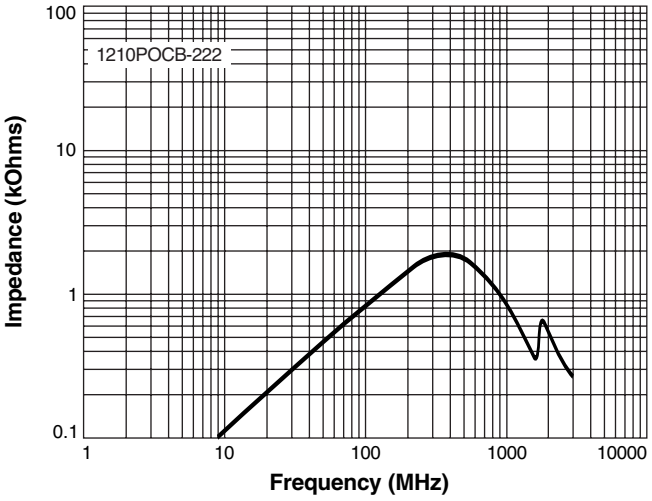
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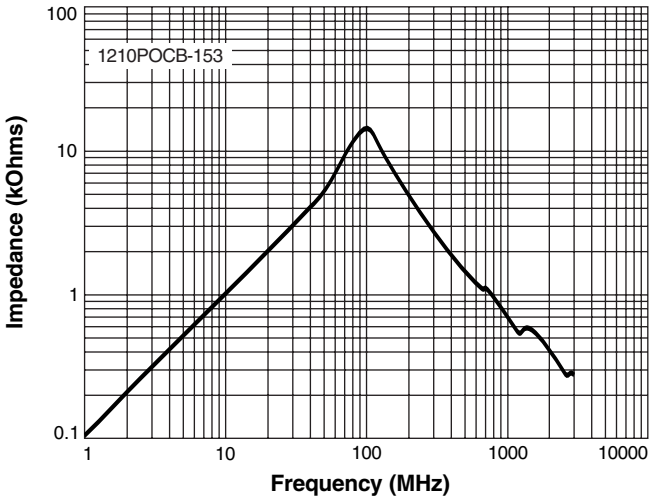
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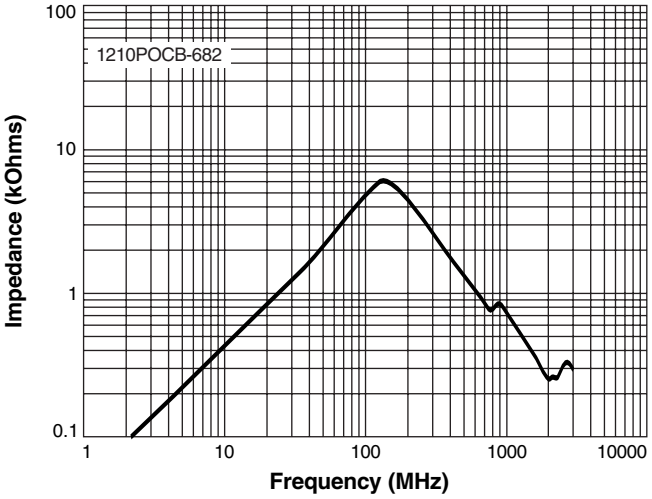
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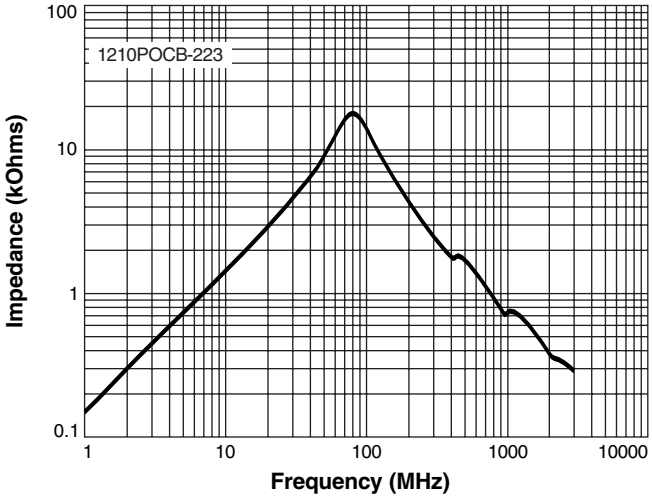
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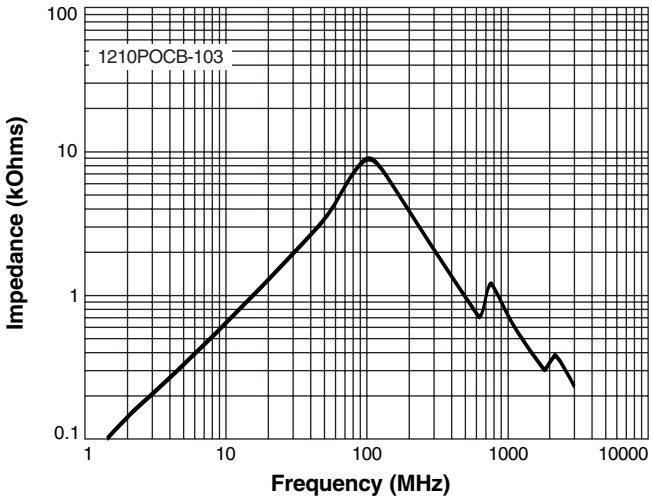
Impedance vs Frequency











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