Power Injection Chokes for PoC 1210POC



- Optimized for AEC-Q200 power over coax (PoC) applications
- Small size to reduce board area of overall system solutions
- High impedance (≥ 1kOhm) maintained over a wide band frequency range to isolate AC signal from the DC power
- AEC-Q200 Grade 1 (–40°C to +125°C)

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 (15°C rise) 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, 0.25 mm thick, 8 mm pocket spacing, 2.72 mm pocket dept
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]
1210POC-222MR_	2.2	0.10	0.13	300	2200	1900	1700	1500	1300	1900	1730	1000
1210POC-472MR_	4.7	0.16	0.19	160	1600	1300	1100	950	810	1500	1350	850
1210POC-682MR_	6.8	0.20	0.24	120	1400	1000	930	800	700	1360	1230	800
1210POC-103MR_	10	0.29	0.34	95	1100	850	760	660	560	1130	1020	570
1210POC-153MR_	15	0.43	0.51	81	910	740	660	580	510	900	840	500
1210POC-183MR_	18	0.74	0.84	79	810	660	580	510	450	850	800	450
1210POC-223MR_	22	0.76	0.88	70	720	580	520	450	390	700	630	400

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

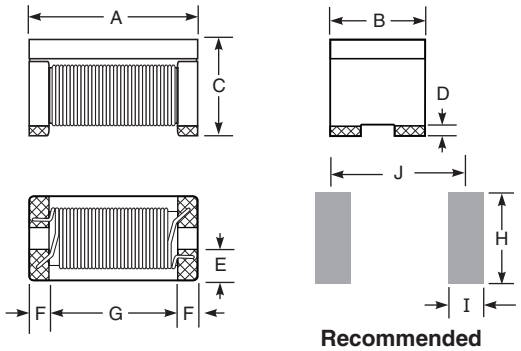
1210POC-223MRC

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 DC using HP4263 with SMD-B test fixture or equivalent
3. DCR measured using a micro-ohmmeter.
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 – 1210POC



Recommended Land Pattern

A max	B max	C max	D	E	F	G	H	I	J	
0.13	0.105	0.118	0.004	0.037	0.020	0.080	0.104	0.026	0.100	in
3,30	2,67	3,00	0,10	0,94	0,51	2,03	2,65	0,65	2,54	mm

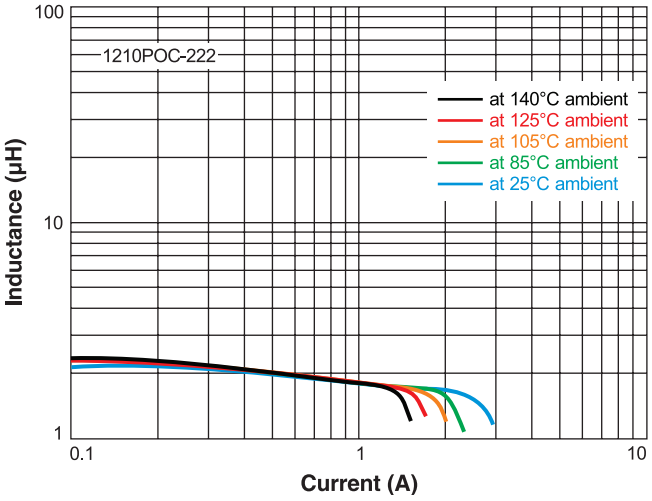
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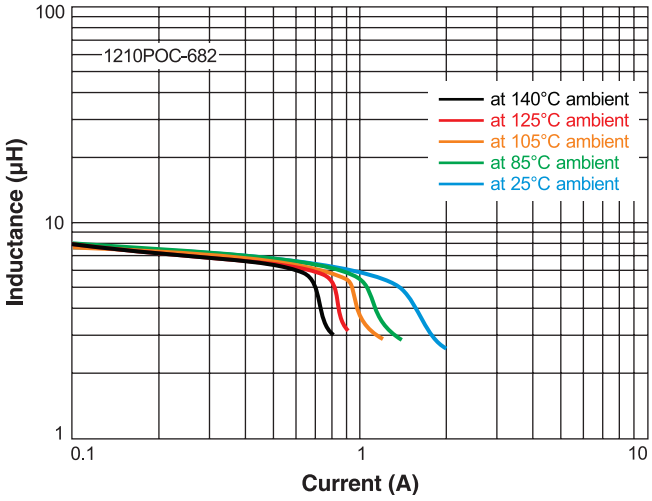
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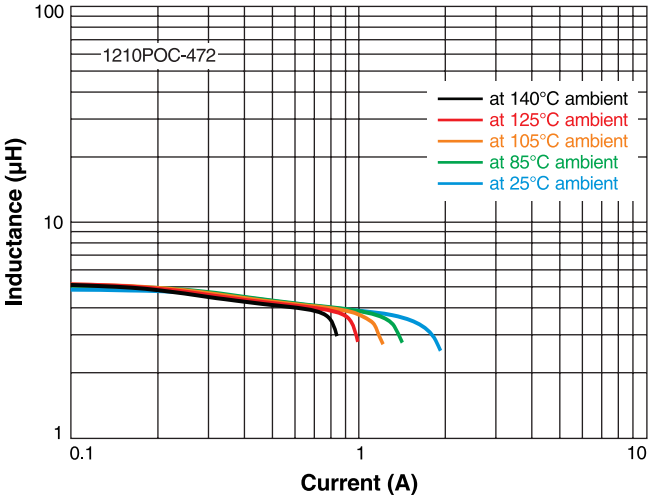
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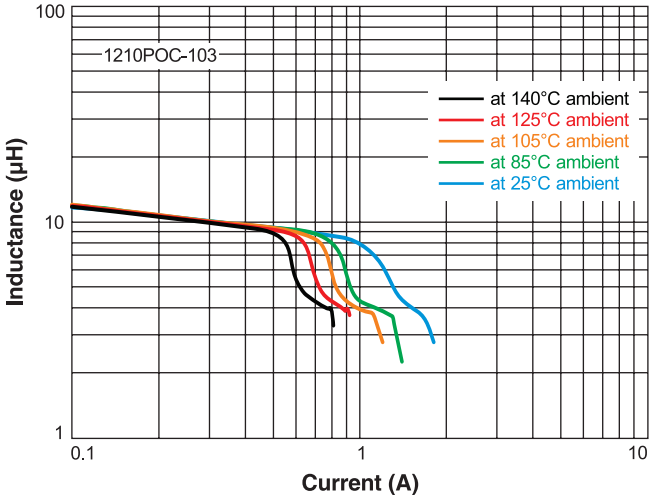
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L vs Current









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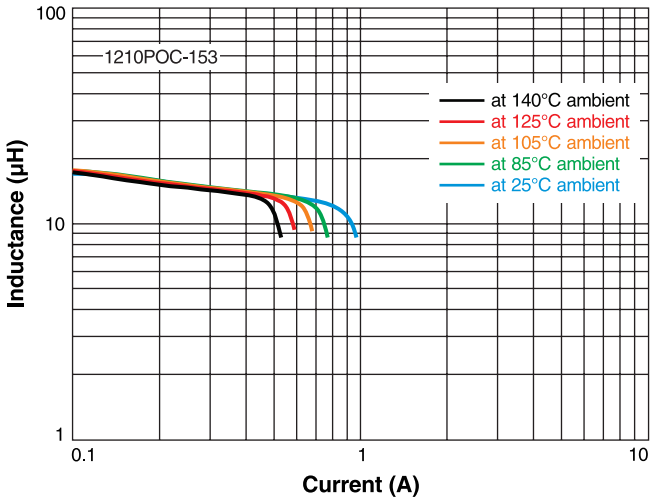
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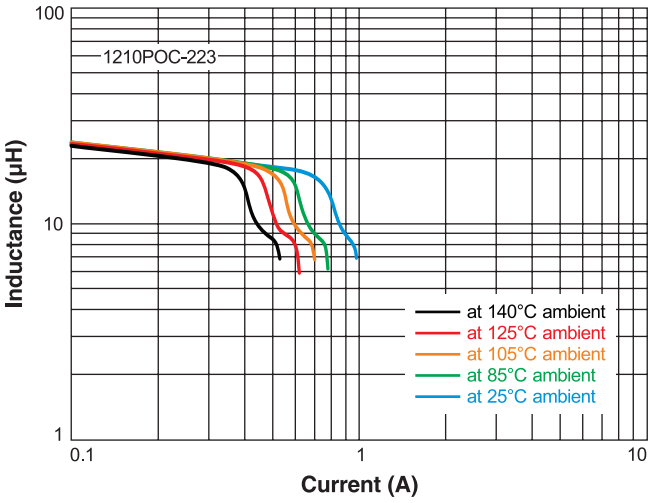
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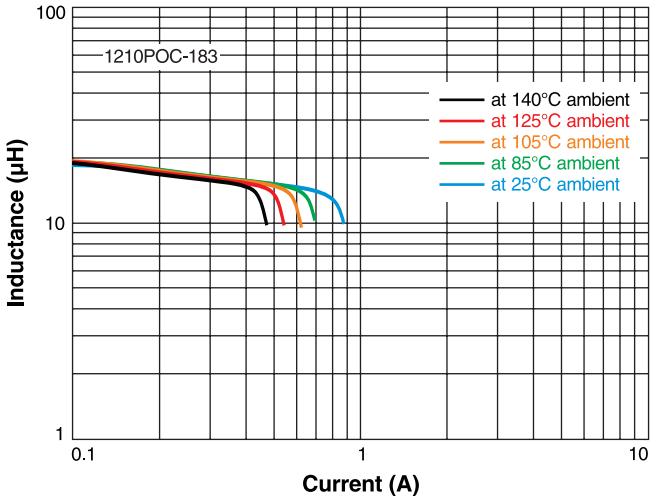
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L vs Current







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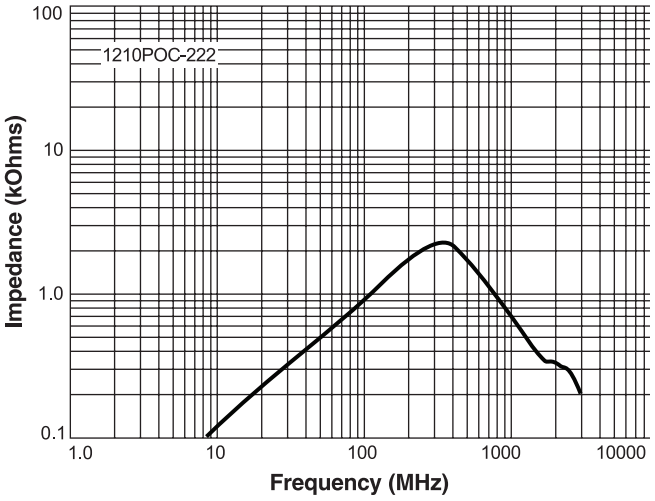
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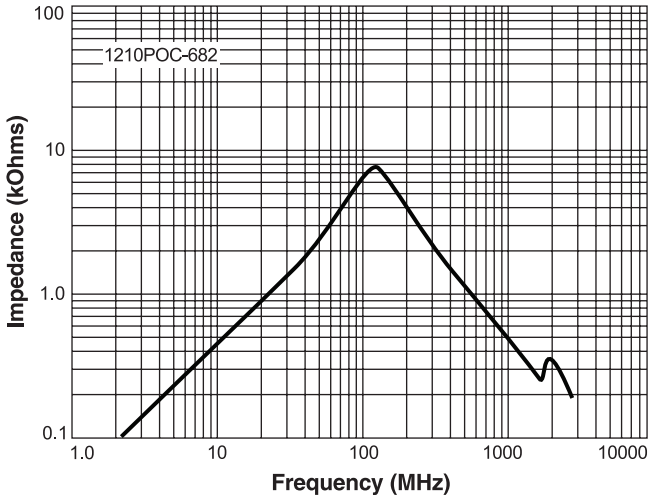
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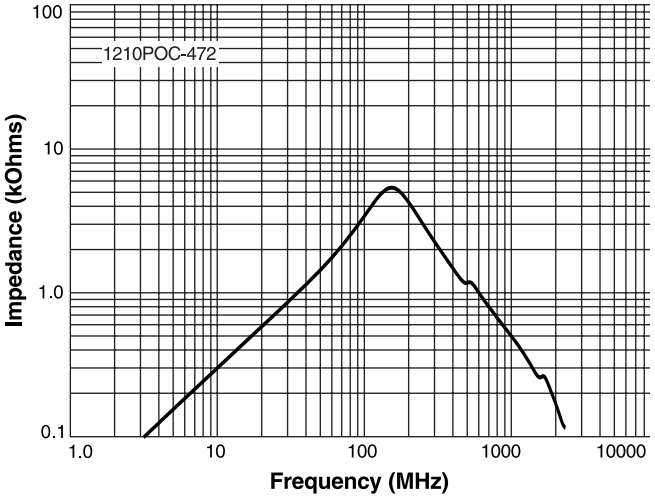
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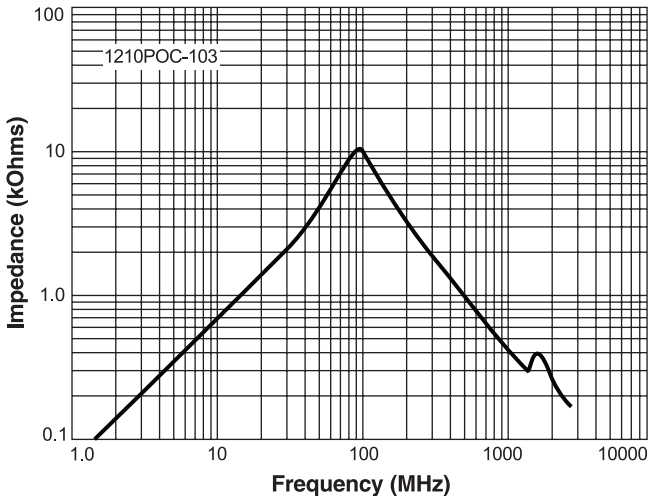
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Impedance vs Frequency









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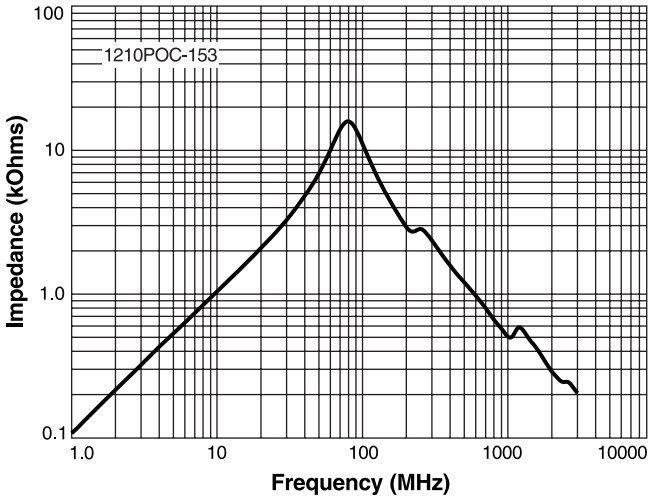
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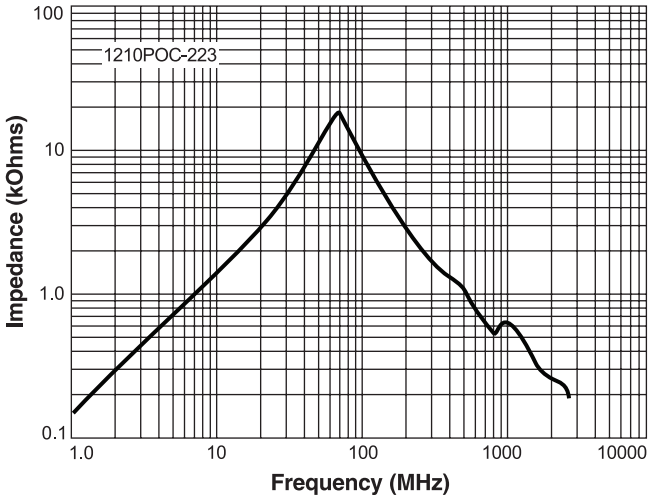
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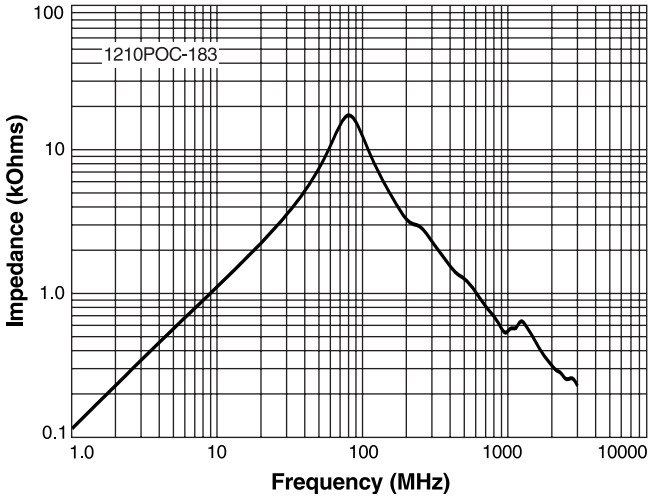
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Impedance vs Frequency







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