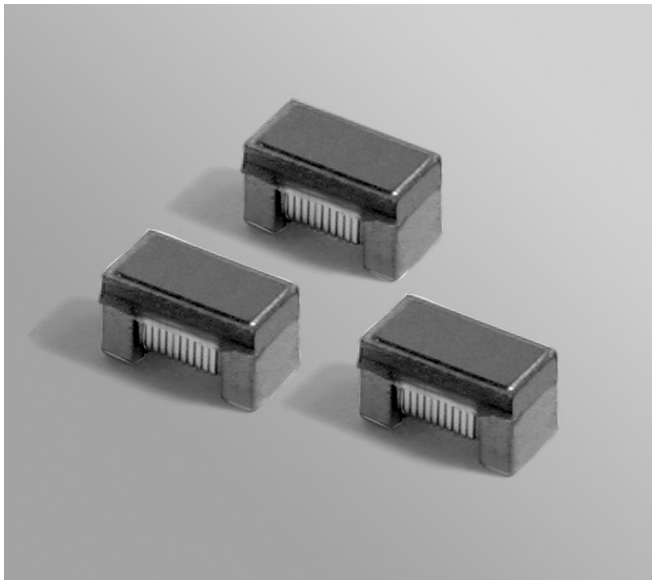
Power Injection Chokes for PoC 1205POC



- Optimized for AEC-Q200 power over coax (PoC) applications
- Small size to reduce board area of overall system solutions
- Board area is only 3.87 mm²
- High impedance (≥ 1 kOhm) 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 36 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 1000/7″ reel; 3500/13″ reel; Plastic tape: 12 mm wide, 0.35 mm thick, 8 mm pocket spacing, 2.36 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]
1205POC-222MR_	2.2	0.18	0.22	440	1300	1100	950	870	780	1200	1100	630
1205POC-682MR_	6.8	0.36	0.41	220	780	640	580	520	470	880	800	460
1205POC-103MR_[9]	10.0	0.90	1.00	165	670	520	460	410	360	560	500	300

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

1205POC-103MRC

Packaging: **C** = 7″ machine-ready reel. EIA-481 embossed plastic tape. Quantities less than full reel available: in tape (not machine ready) or with leader and trailer ($25 charge). See dimensional drawing for packaging information.
D = 13″ machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked. See dimensional drawing for packaging information.

2. Inductance tested at 100 kHz, 0.1 Vrms, 200 mA DC using HP4263 w/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. 1205POC-103 previously named WA8506-103.
10. Electrical specifications at 25°C.

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

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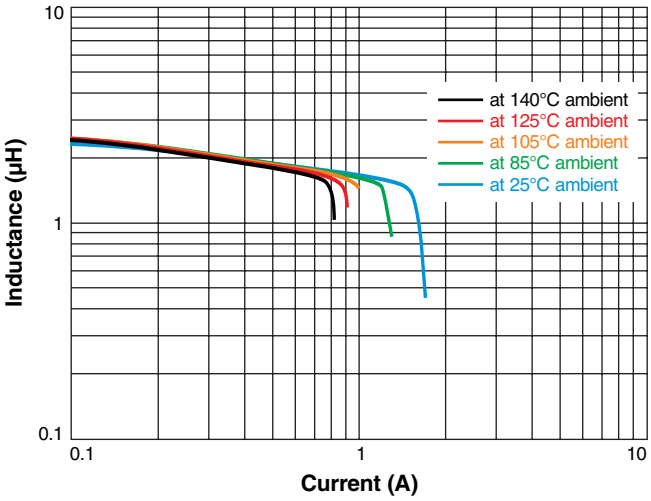
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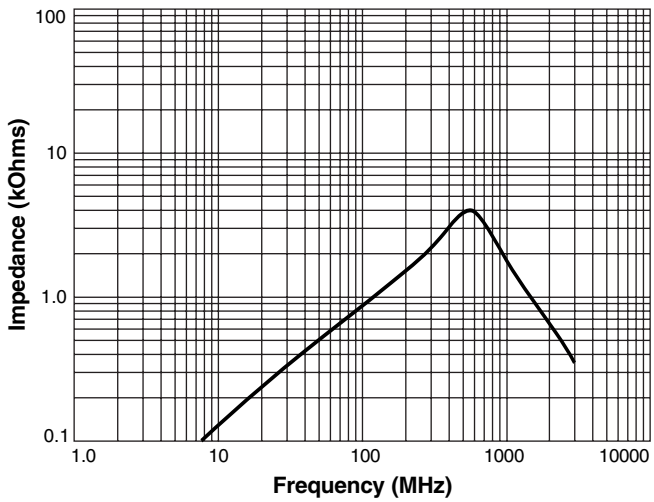
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Specification subject to change without notice
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1205POC Power Injection Chokes for PoC

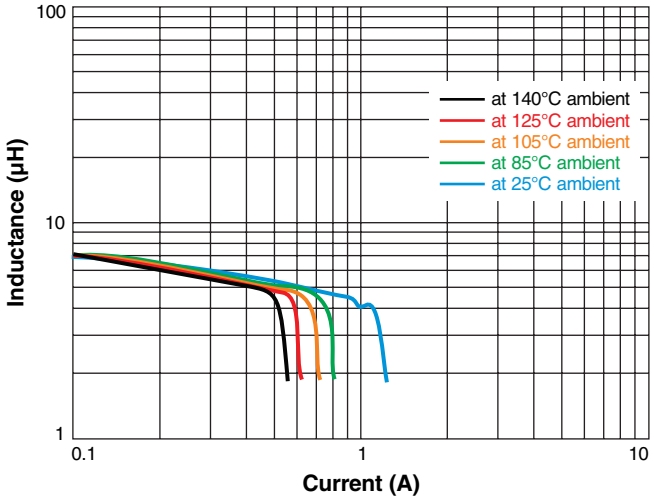
L vs Current – 1205POC-222



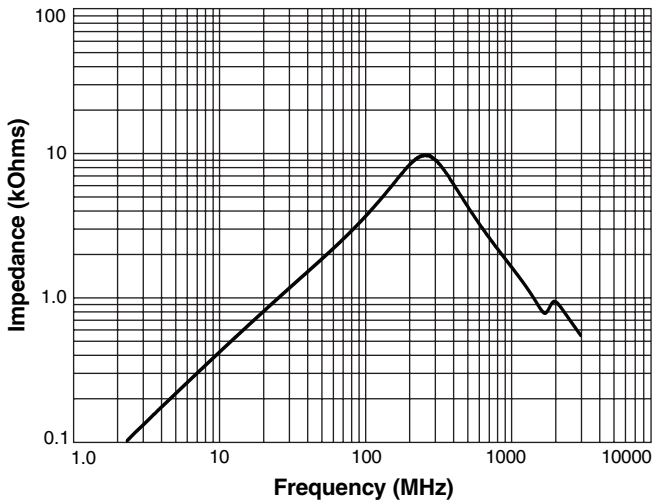
Impedance vs Frequency – 1205POC-222



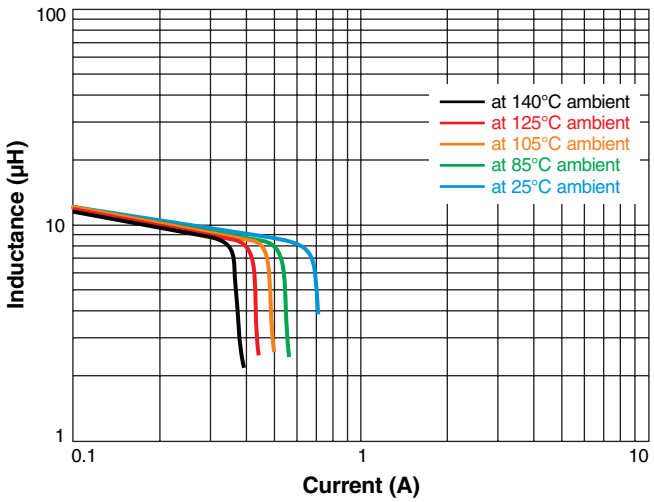
L vs Current – 1205POC-682



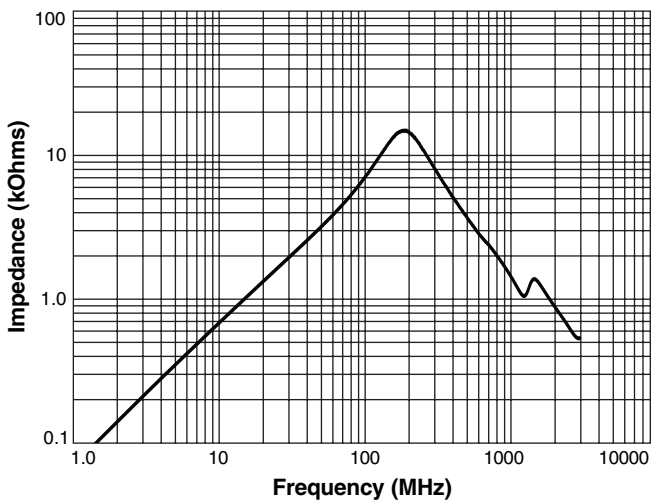
Impedance vs Frequency – 1205POC-682



L vs Current – 1205POC-103



Impedance vs Frequency – 1205POC-103



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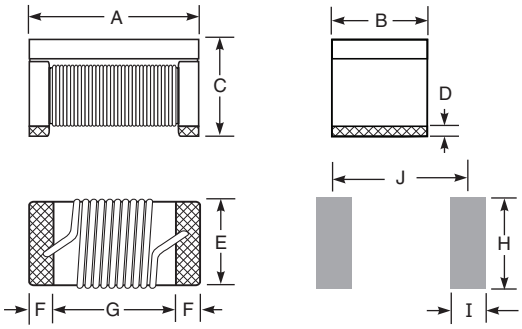
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1205POC Power Injection Chokes for PoC

Dimensions – 1205POC



Recommended Land Pattern

A max	B max	C max	D	E	F	G	H	I	J	
0.126	0.055	0.093	0.006	0.050	0.012	0.096	0.055	0.018	0.107	inches
3,20	1,40	2,36	0,15	1,27	0,31	2,44	1,40	0,45	2,72	mm

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