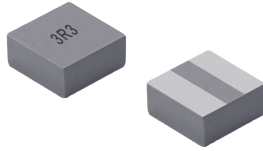


**SPM Series**  
**SMT Power Metal Inductor**  
**Size 3012**

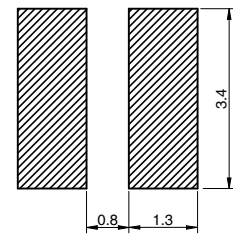
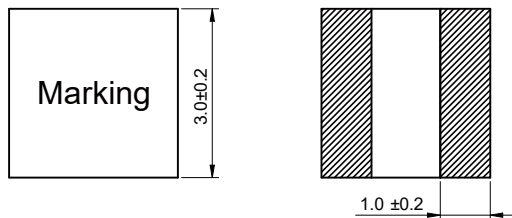


**FEATURES**

- Large current, Low DC-resistance, High efficiency by magnetic metal powder
- Low acoustic noise and low leakage flux noise by shielded construction
- AEC-Q200 Compliant
- Operating temperature: -40 °C ~125 °C
- Quantity: 1000 pcs/reel

**Dimensions: [mm]**

**Land Pattern: [mm]**



**Electrical Properties:**

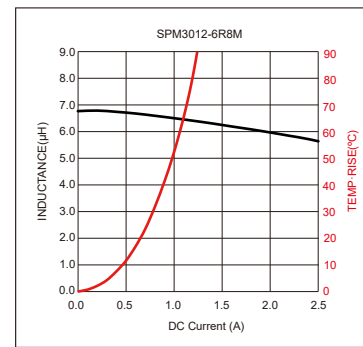
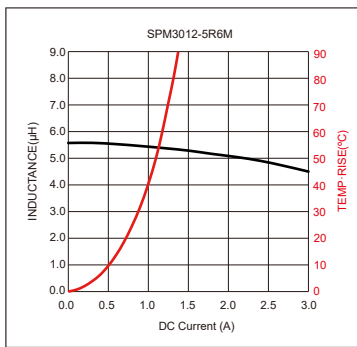
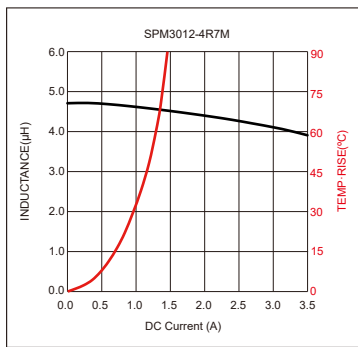
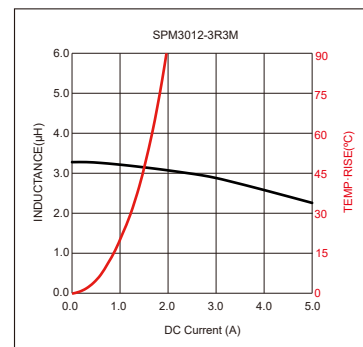
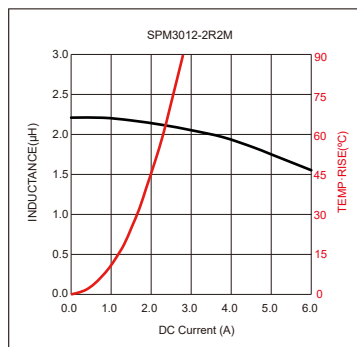
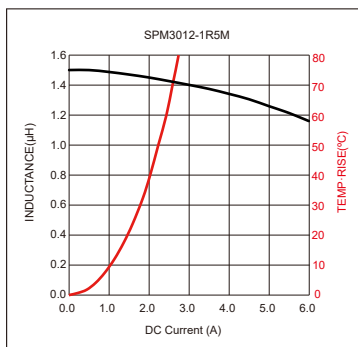
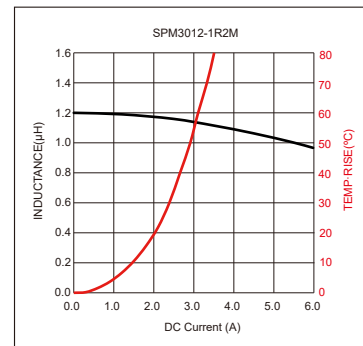
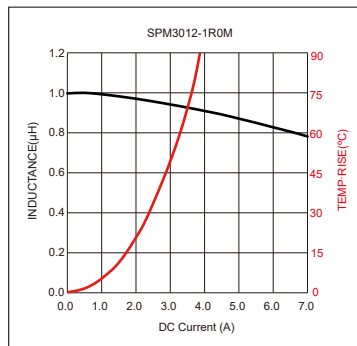
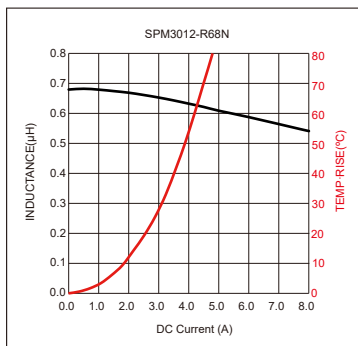
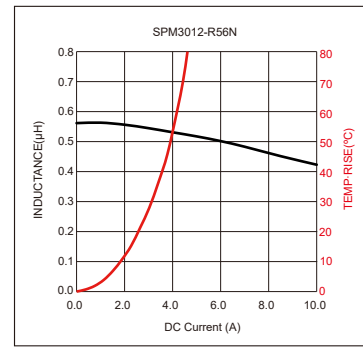
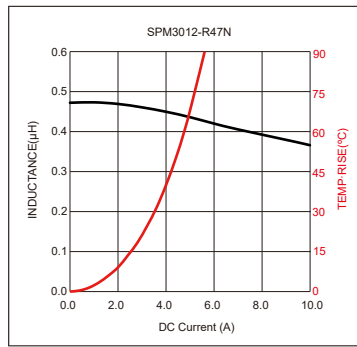
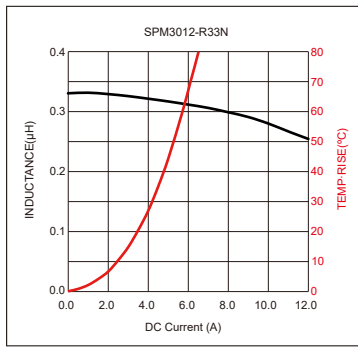
Part No	Inductance (μH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation Current Typ. (A)	DCR Max. (mΩ)	DCR Typ. (mΩ)
SPM3012-R33N	0.33	± 30%	3.4	11.1	22.8	19.0
SPM3012-R47N	0.47	± 30%	3.2	9.4	26.4	22.0
SPM3012-R56N	0.56	± 30%	3.0	8.5	34.8	29.0
SPM3012-R68N	0.68	± 30%	2.7	7.7	43.2	36.0
SPM3012-1R0M	1	± 20%	2.5	5.2	50.5	42.1
SPM3012-1R2M	1.2	± 20%	2.3	5.0	66.0	55.0
SPM3012-1R5M	1.5	± 20%	1.9	4.7	96.0	80.0
SPM3012-2R2M	2.2	± 20%	1.7	4.6	115.0	100.0
SPM3012-3R3M	3.3	± 20%	1.3	3.7	179.7	156.3
SPM3012-4R7M	4.7	± 20%	1.0	3.3	307.8	267.7
SPM3012-5R6M	5.6	± 20%	0.9	3.0	389.0	338.3
SPM3012-6R8M	6.8	± 20%	0.8	2.4	423.4	368.2

Inductance is measured at 100kHz, 1V

Temperature rise current: the actual value of DC current when the temperature rise is ΔT40 °C

Saturation Current that will cause initial inductance to drop approximately 20%

Typical Electrical Characteristics:



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