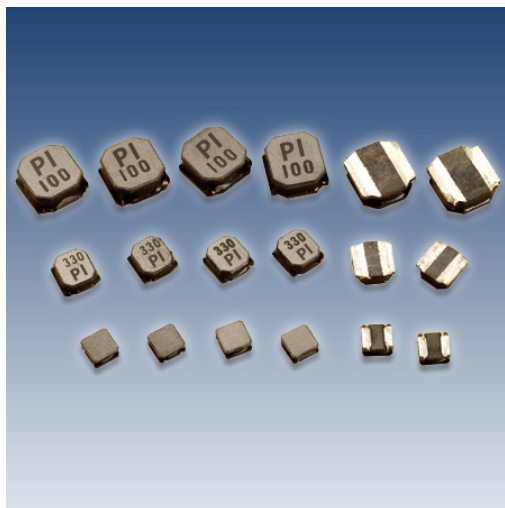




LSMS-12120 Series Shielded SMD Power Inductor

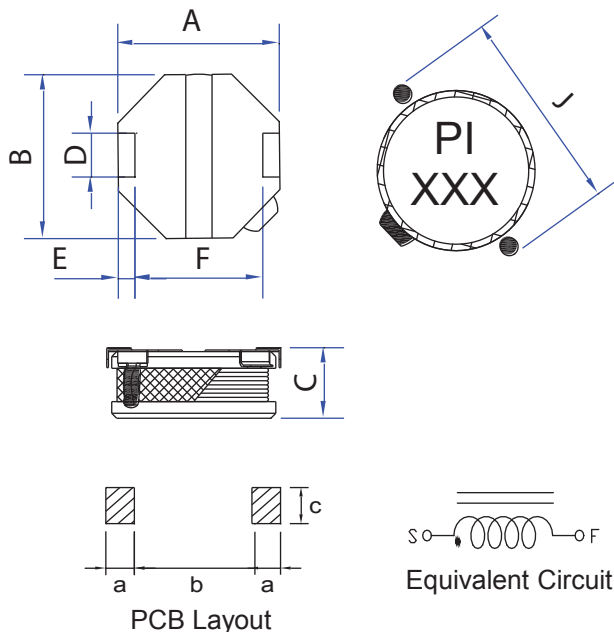
Features:

- RoHS Compliant
- Surface Mount
- Low Radiated Field Due to Shielded Design
- High DC Current Bias Capability
- 120 Degree C Rating (ambient plus rise)
- Used for Output and EMI Inductor Applications
- Very Low Profiles Available

Applications:

- LCD TV, Touch Panel, & Monitor
- STB & Smart Phone
- Game Console & Other Electronic Devices

Physical Dimension



(Unit: mm)

Part Number	A Max	B Max	C Max	D Ref	E Ref	F Ref	J Max	a ref	b ref	c ref
LSMS-12120	12.5	12.5	6.0	5.0	2.0	7.6	17.5	2.9	7.0	5.4

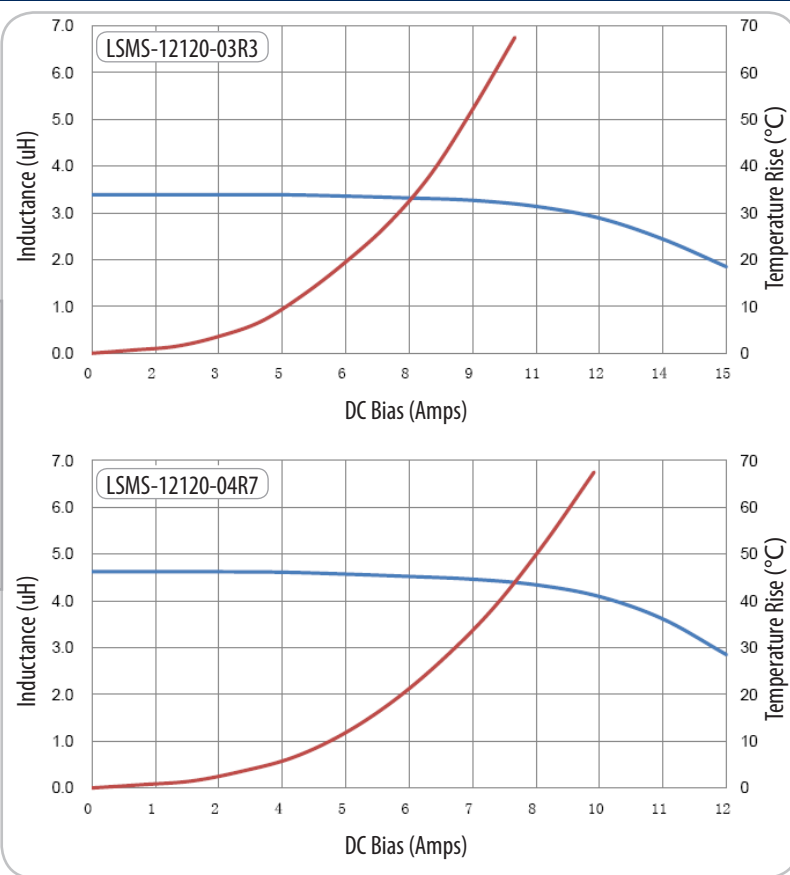
Electrical

Precision Model Number	Inductance L0 100KHz/1.0V	DCR @ 25 °C, Max	I-sat ≥80%L0 Note 1	I-rms ΔT≤40 °C Note 2
LSMS-12120-03R3	3.3uH ± 30%	15.0 mΩ	10.0 Amps	7.8 Amps
LSMS-12120-04R7	4.7uH ± 30%	16.0 mΩ	9.5 Amps	7.5 Amps
LSMS-12120-05R6	5.6uH ± 30%	18.0 mΩ	9.0 Amps	7.2 Amps
LSMS-12120-06R8	6.8uH ± 30%	20.0 mΩ	8.3 Amps	7.0 Amps
LSMS-12120-08R2	8.2uH ± 30%	24.0 mΩ	7.4 Amps	6.5 Amps
LSMS-12120-0100	10uH ± 20%	26.0 mΩ	6.6 Amps	6.0 Amps
LSMS-12120-0120	12uH ± 20%	27.0 mΩ	6.1 Amps	5.5 Amps
LSMS-12120-0150	15uH ± 20%	35.0 mΩ	5.3 Amps	4.8 Amps
LSMS-12120-0180	18uH ± 20%	41.0 mΩ	5.0 Amps	4.3 Amps
LSMS-12120-0220	22uH ± 20%	47.0 mΩ	4.6 Amps	3.9 Amps
LSMS-12120-0270	27uH ± 20%	58.5 mΩ	4.0 Amps	3.6 Amps
LSMS-12120-0330	33uH ± 20%	62.5 mΩ	3.7 Amps	3.3 Amps
LSMS-12120-0390	39uH ± 20%	79.0 mΩ	3.4 Amps	3.0 Amps
LSMS-12120-0470	47uH ± 20%	93.5 mΩ	3.0 Amps	2.7 Amps
LSMS-12120-0560	56uH ± 20%	120 mΩ	2.6 Amps	2.3 Amps
LSMS-12120-0680	68uH ± 20%	136 mΩ	2.4 Amps	2.1 Amps
LSMS-12120-0820	82uH ± 20%	155 mΩ	2.2 Amps	1.9 Amps
LSMS-12120-0101	100uH ± 20%	180 mΩ	2.0 Amps	1.7 Amps
LSMS-12120-0121	120uH ± 20%	212 mΩ	1.8 Amps	1.5 Amps
LSMS-12120-0151	150uH ± 20%	255 mΩ	1.6 Amps	1.3 Amps

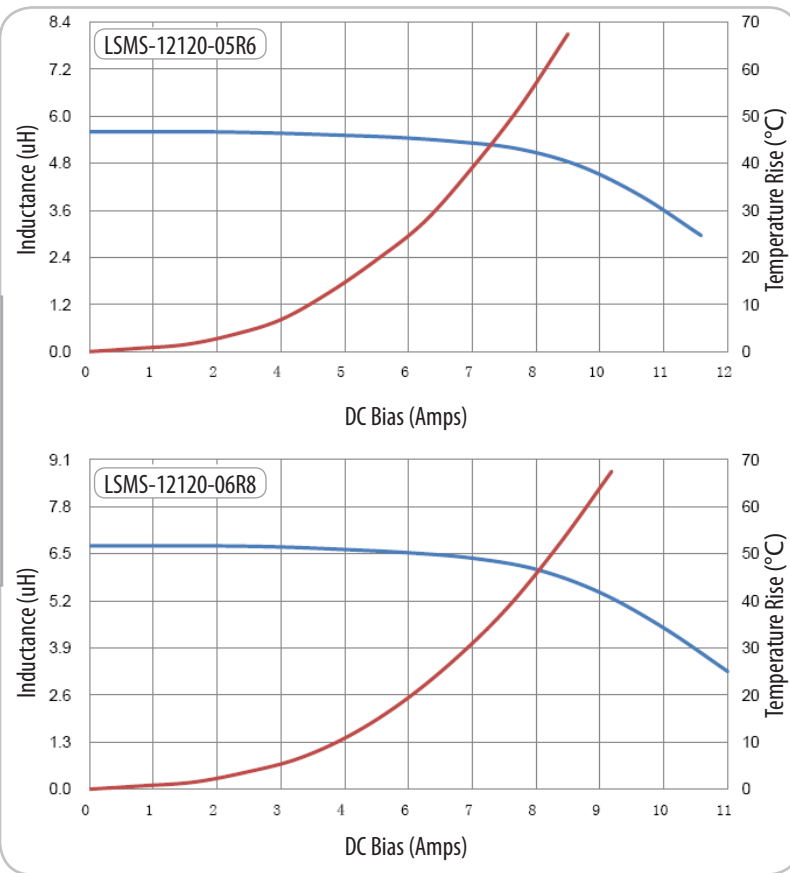
NOTE (1) : Saturation Rated Current that will cause initial inductance value approximately 20% roll off. (Ta=25±5°C)
NOTE (2) : Temperature Rise Current that will cause temperature rise approximate 40°C without core loss. (Ta=25±5°C)



Electrical curve

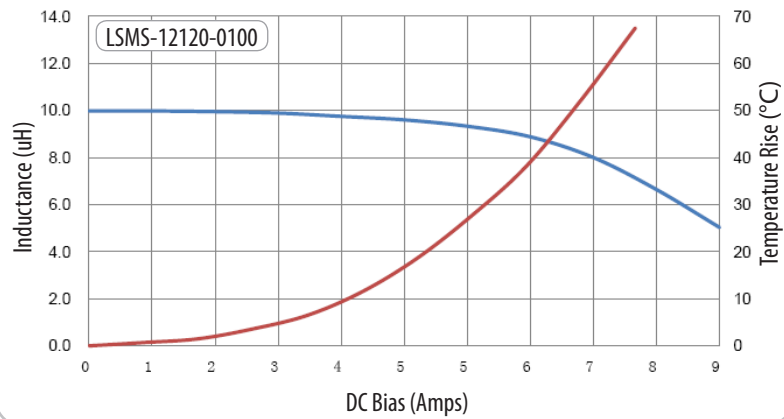
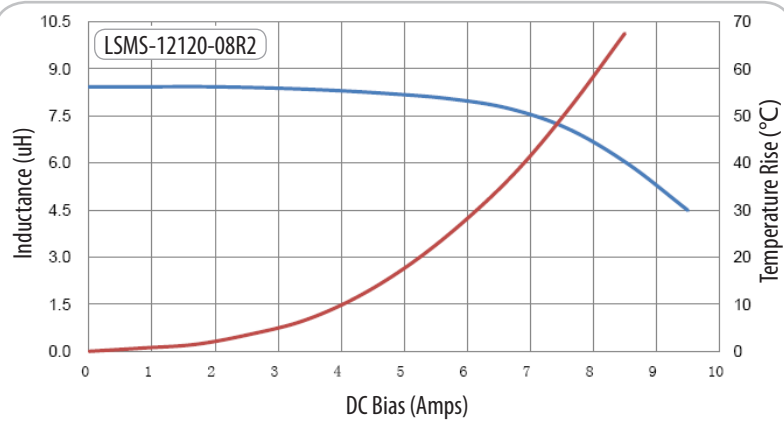


Electrical curve

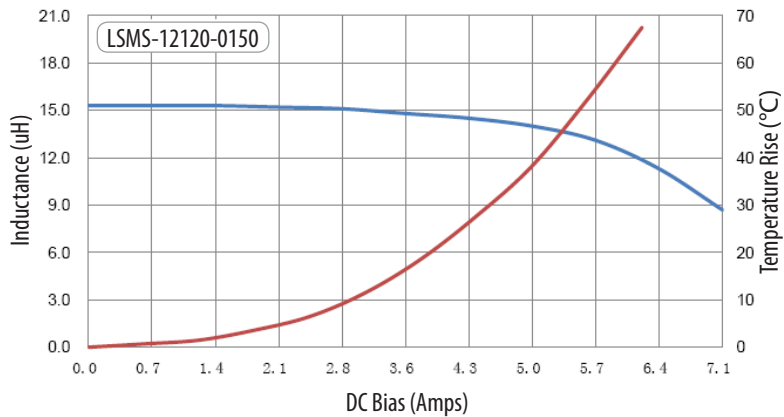
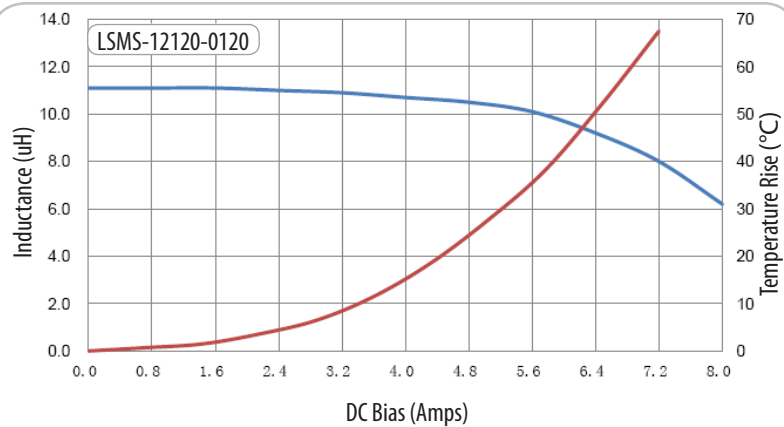




Electrical curve

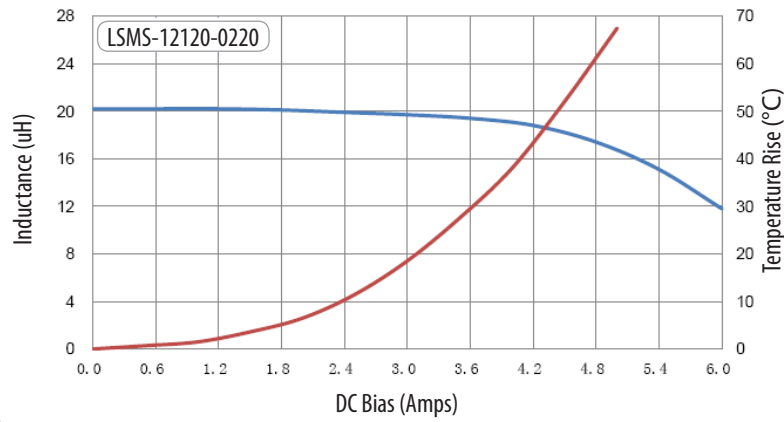
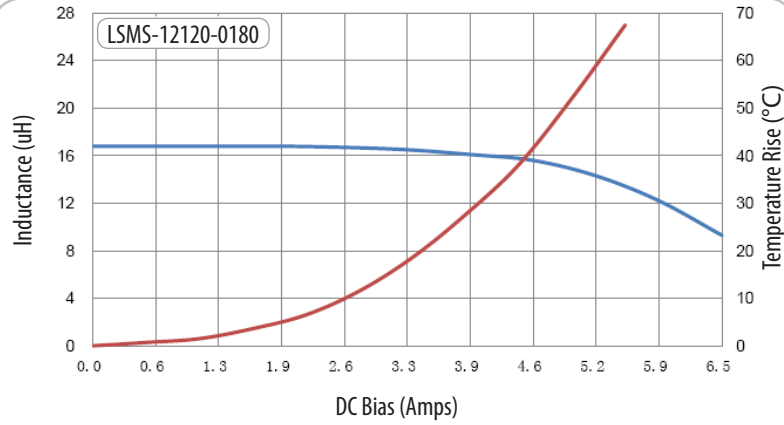


Electrical curve

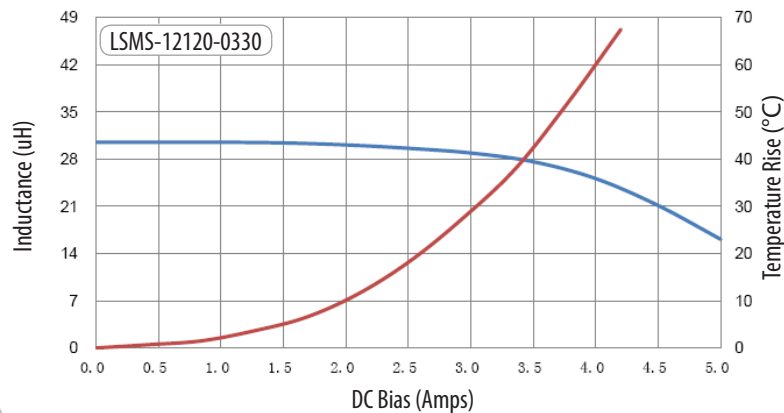
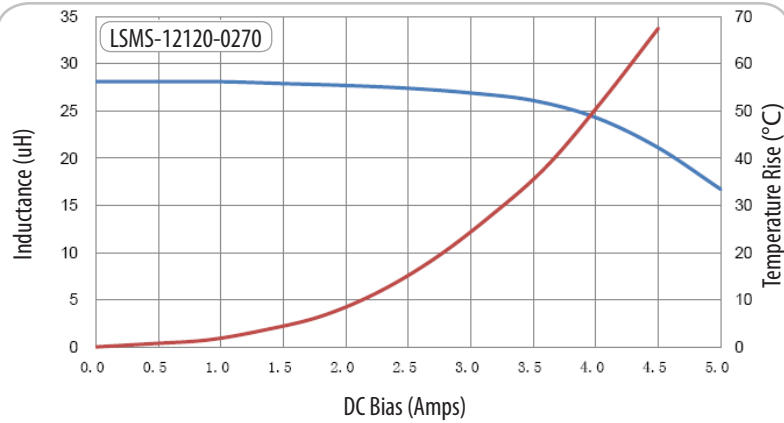




Electrical curve

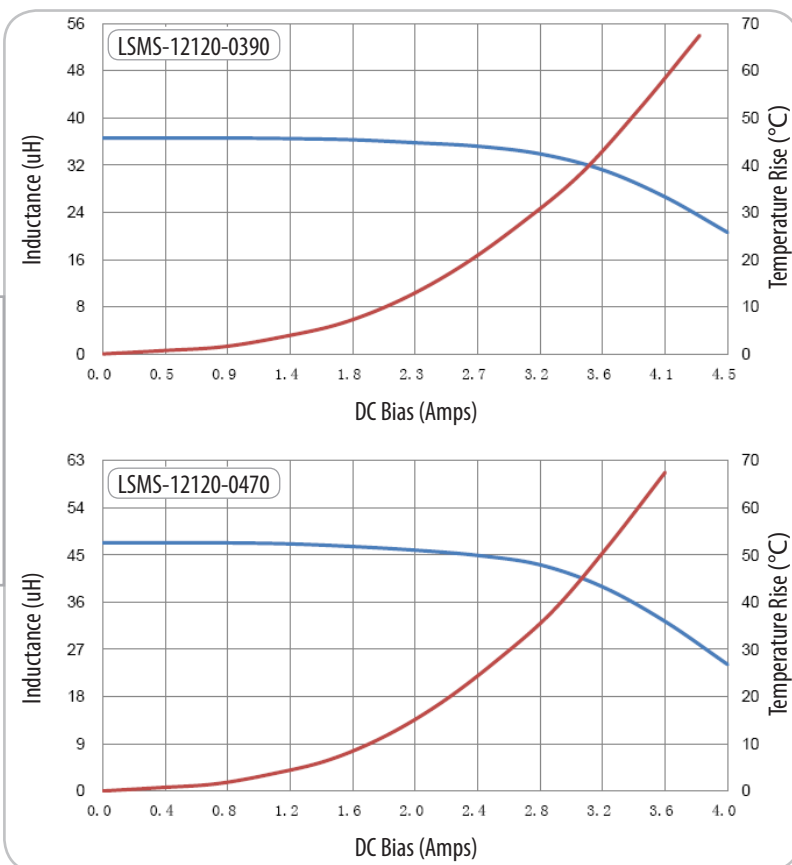


Electrical curve

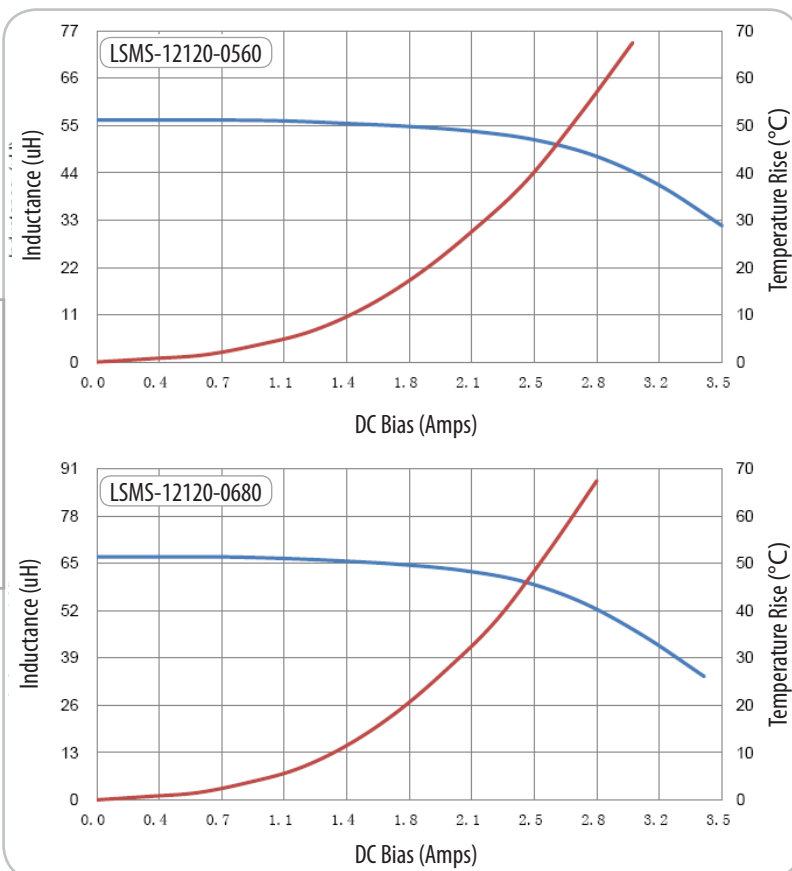




Electrical curve

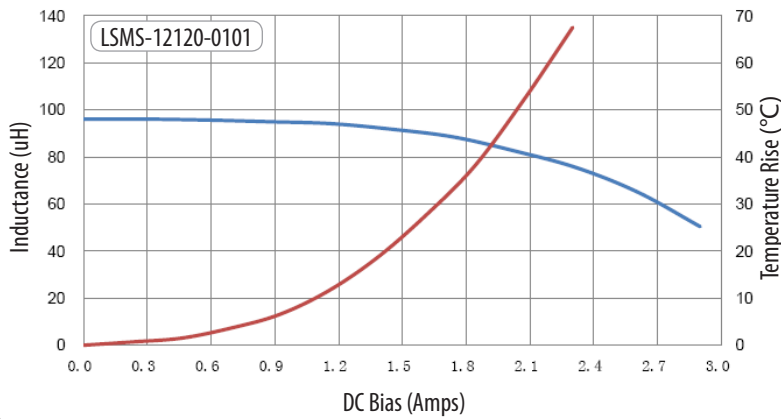
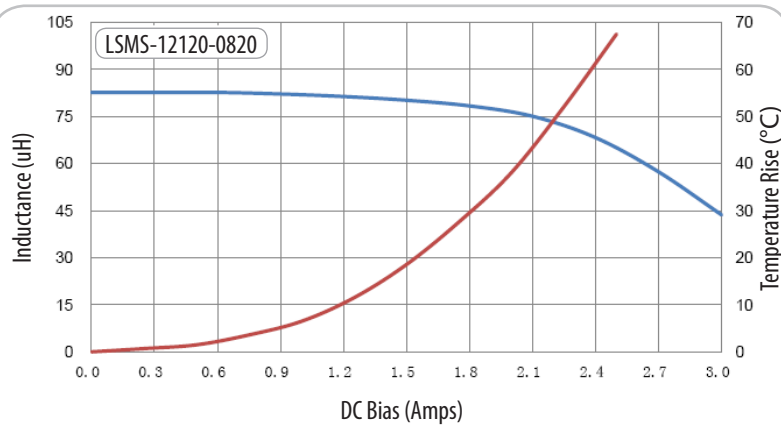


Electrical curve





Electrical curve



Electrical curve

