

7E03NB



■ Features

- Small and low profile (height=1.5 and 2.0mm max.)
- SMD magnetic shielded type of power inductor
- Suitable for power supply choke coil
- Available in 2 types of electronic characteristics
- Powered DC Current

Magnetic structure :

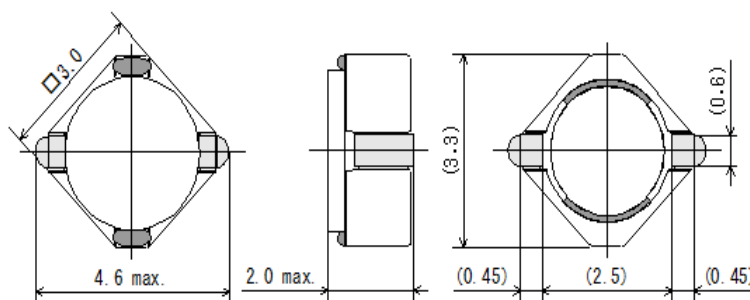


Weight : 0.06 g

■ Applications

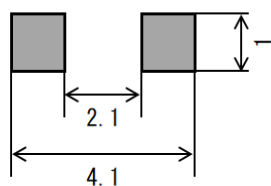
- Audio Visual/Camera, Portable Audio
- Computer & Peripheral Device/Computer, Wireless Router
- Others/FA, Medical, Energy, Power Supply, Transceivers

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



SAGAMI ELEC CO., LTD.
https://www.sagami-elec.co.jp

10-30, Ichibashimo-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0024, Japan
Over Seas Sales Dept. TEL : +81 45 511 3141, E-mail : ossg@sagami-elec.co.jp
Engineering Dept. TEL : +81 45 521 4543

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■ Specifications

SAGAMI Part No.	Inductance (μ H)	DCR (Ω) $\pm 30\%$	DC Saturation Allowable Current (A)	Temperature Rise Allowable Current (A)
7E03NB-1R2N	1.2 $\pm 30\%$	0.0330	2.20	2.20
7E03NB-1R5N	1.5 $\pm 30\%$	0.0370	2.00	2.00
7E03NB-2R0N	2 $\pm 30\%$	0.0470	1.90	1.90
7E03NB-2R4N	2.4 $\pm 30\%$	0.0510	1.80	1.80
7E03NB-3R6N	3.6 $\pm 30\%$	0.0780	1.50	1.50
7E03NB-4R7N	4.7 $\pm 30\%$	0.100	1.20	1.20
7E03NB-5R6N	5.6 $\pm 30\%$	0.120	1.10	1.10
7E03NB-6R8N	6.8 $\pm 30\%$	0.140	1.05	1.05
7E03NB-8R2N	8.2 $\pm 30\%$	0.170	0.950	0.950
7E03NB-100M	10 $\pm 20\%$	0.200	0.900	0.900
7E03NB-120M	12 $\pm 20\%$	0.270	0.750	0.750
7E03NB-150M	15 $\pm 20\%$	0.310	0.650	0.650
7E03NB-180M	18 $\pm 20\%$	0.400	0.620	0.620
7E03NB-220M	22 $\pm 20\%$	0.470	0.570	0.570
7E03NB-270M	27 $\pm 20\%$	0.640	0.500	0.500
7E03NB-330M	33 $\pm 20\%$	0.700	0.460	0.460
7E03NB-390M	39 $\pm 20\%$	0.800	0.440	0.440
7E03NB-470M	47 $\pm 20\%$	1.10	0.390	0.390
7E03NB-560M	56 $\pm 20\%$	1.20	0.350	0.350

Inductance Measuring Condition:100kHz,1V

DC saturation allowable current:The current value which inductance decrease within 35% from the initial value

Temperature rise allowable current:The rise in temperature of core surface is within 40°C



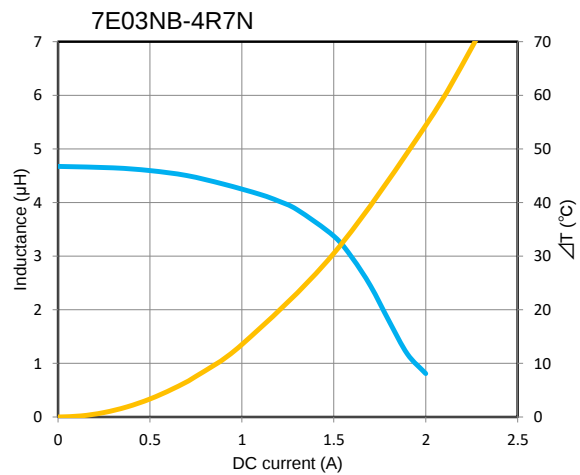
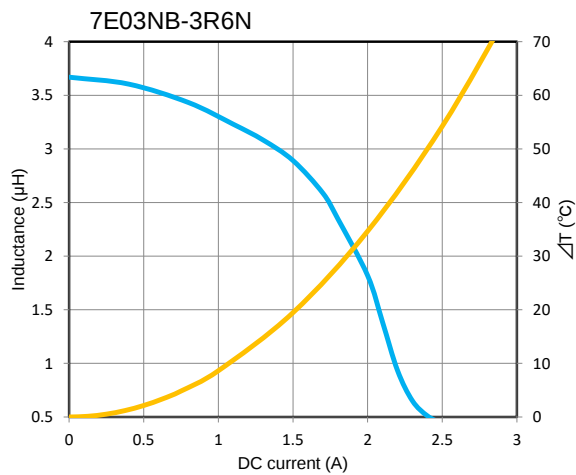
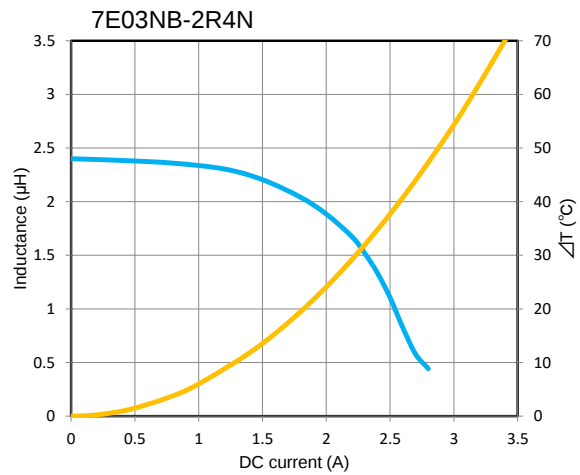
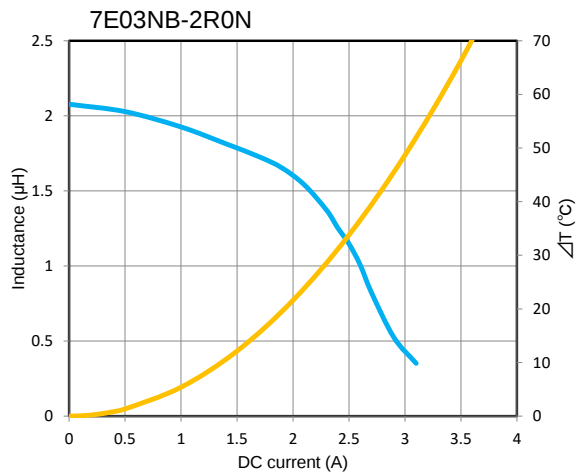
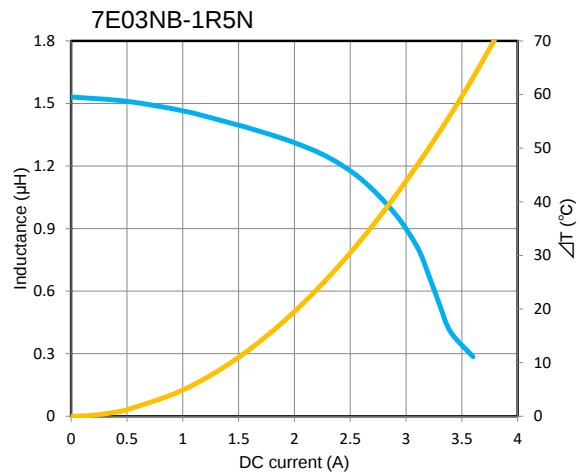
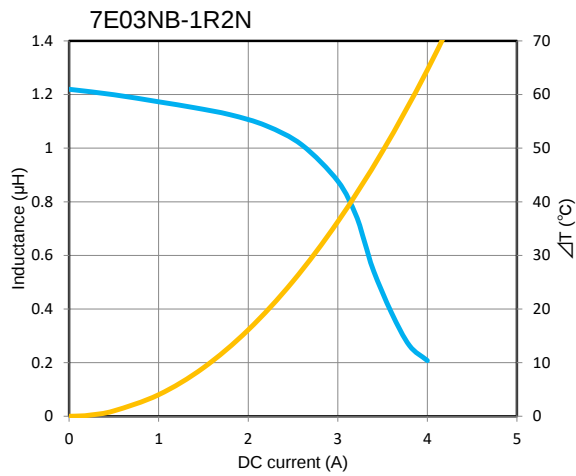
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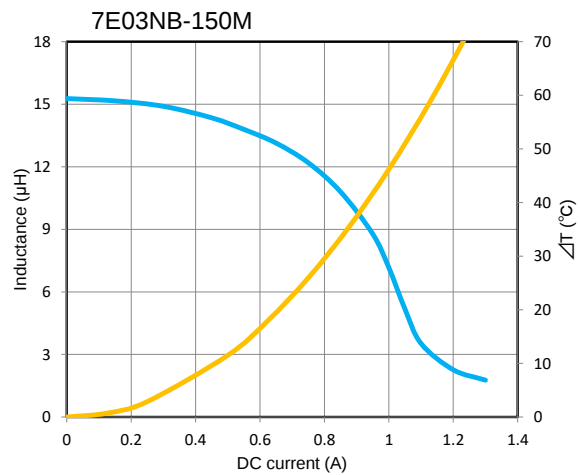
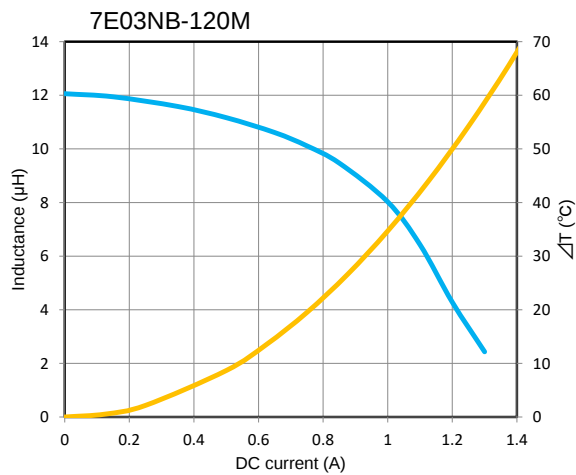
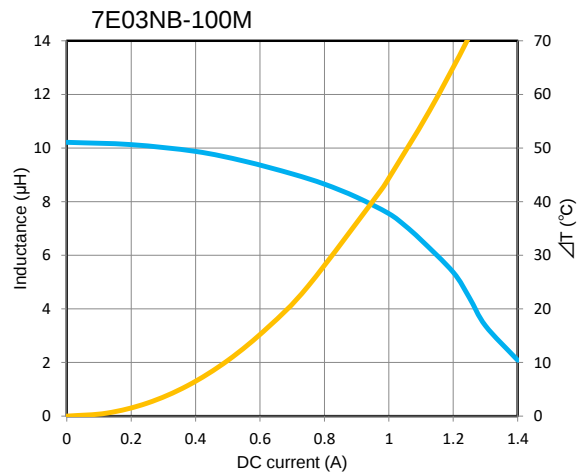
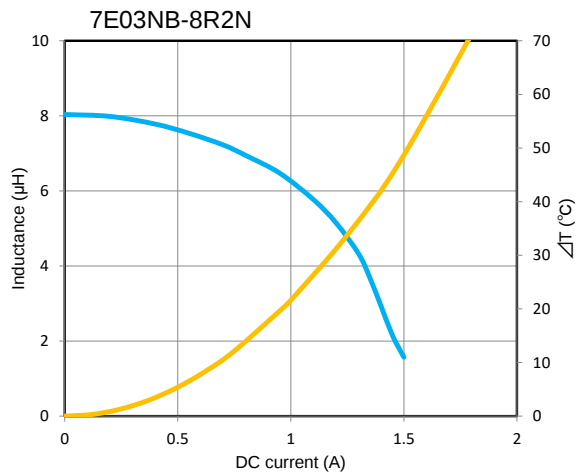
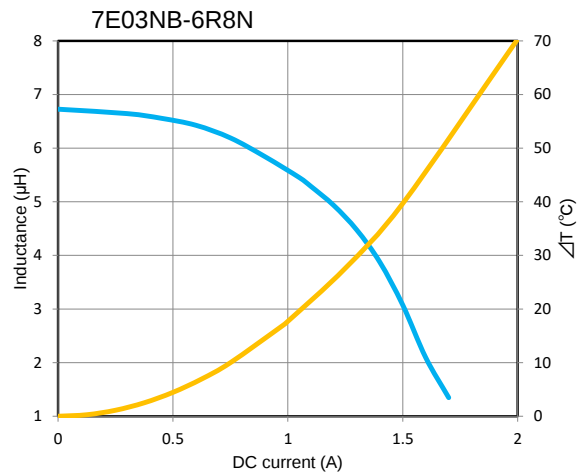
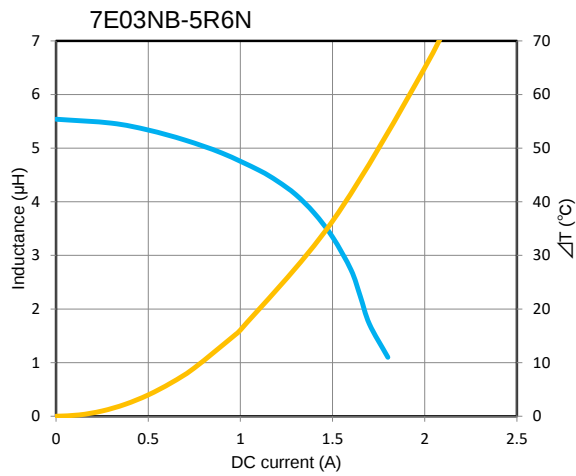
DC bias characteristics vs Temperature Rise Graph

— $L(25^{\circ}\text{C})$
— ΔT



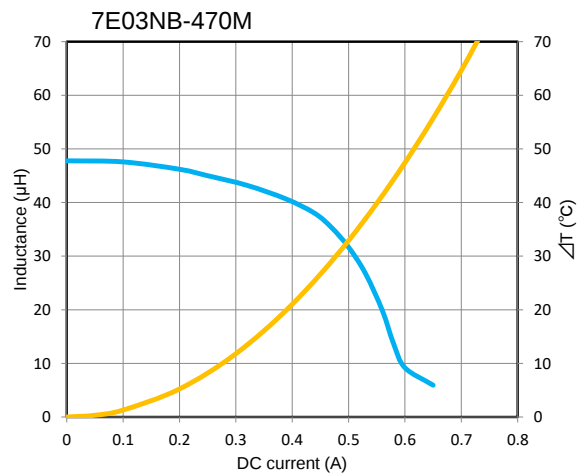
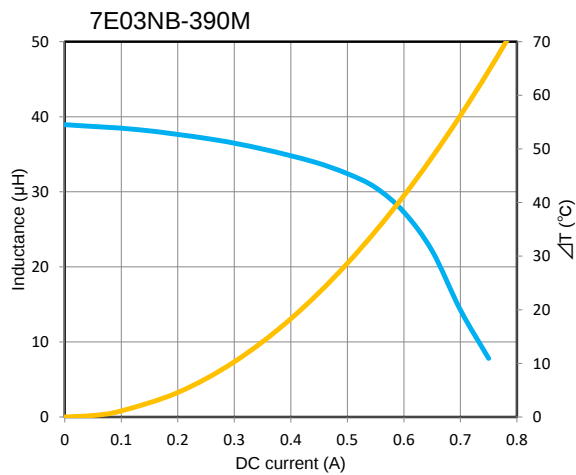
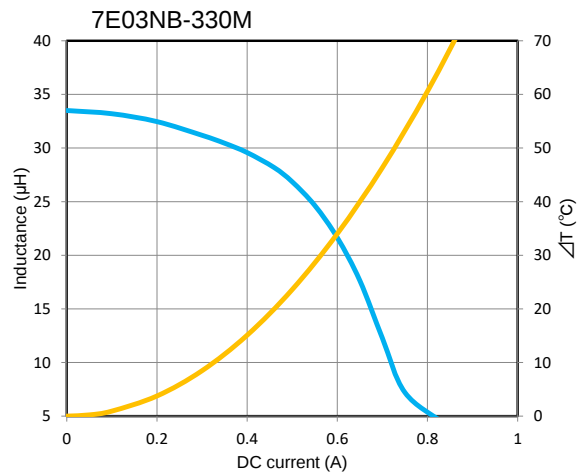
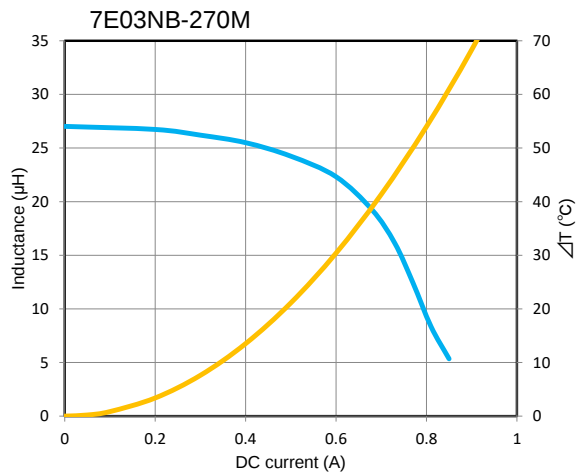
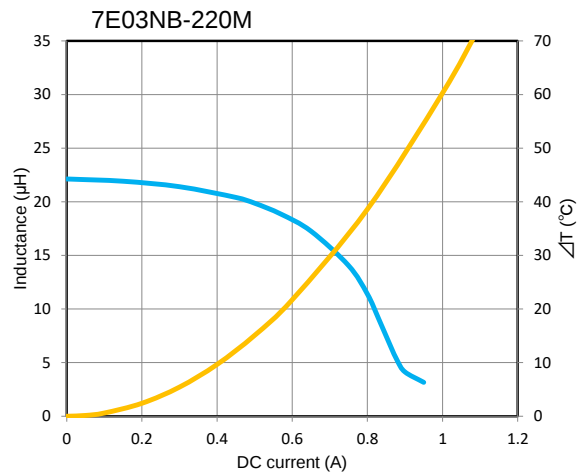
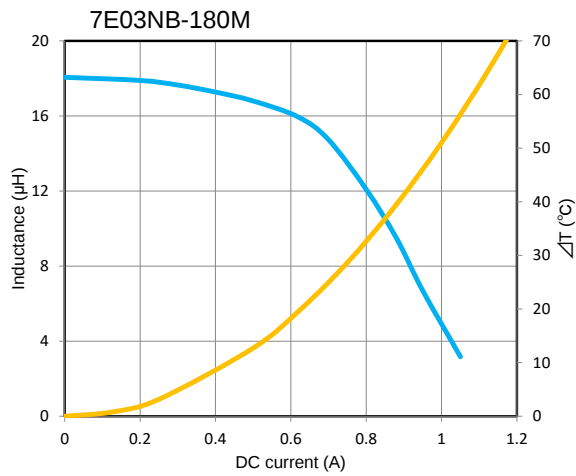
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DC bias characteristics vs Temperature Rise Graph

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DC bias characteristics vs Temperature Rise Graph

■ L(25°C) ■ ΔT

