

7E05ED



■ Features

- SMD magnetically shielded type of power inductor
- Suitable for power supply choke coil
- Small and low profile

Magnetic structure :

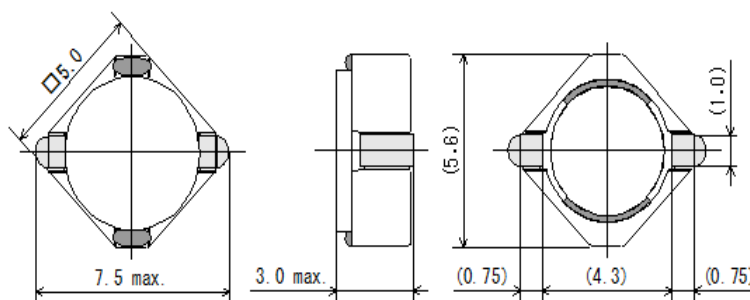


Weight : 0.25 g

■ Applications

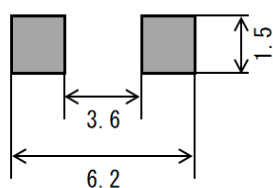
- Audio Visual/Camera, Recorder, TV and Monitor
- Automotive/Antenna
- Computer & Peripheral Device/Printer(MFP), Industrial Machines, Computer
- Home Electronics/LED Lights
- Others/FA, Medical, Energy, Power Supply, Transceivers

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



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

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■ Specifications

SAGAMI Part No.	Inductance (μH)	DCR (Ω) $\pm 30\%$	DC Saturation Allowable Current (A)		Temperature Rise Allowable Current (A)	
			Typical	Spec	Typical	Spec
7E05ED-1R4N	1.4 $\pm 30\%$	0.0180	6.14	3.50	4.68	3.70
7E05ED-2R0N	2 $\pm 30\%$	0.0230	4.75	3.15	4.17	3.30
7E05ED-2R7N	2.7 $\pm 30\%$	0.0270	4.10	2.65	3.92	2.90
7E05ED-3R3N	3.3 $\pm 30\%$	0.0370	3.49	2.30	3.16	2.50
7E05ED-4R3N	4.3 $\pm 30\%$	0.0450	3.18	2.10	2.78	2.20
7E05ED-5R1N	5.1 $\pm 30\%$	0.0550	2.89	1.95	2.72	2.10
7E05ED-6R2N	6.2 $\pm 30\%$	0.0690	2.61	1.75	2.40	1.90
7E05ED-7R5N	7.5 $\pm 30\%$	0.0810	2.35	1.50	2.02	1.65
7E05ED-8R2N	8.2 $\pm 30\%$	0.0870	2.18	1.45	1.96	1.55
7E05ED-100M	10 $\pm 20\%$	0.110	2.02	1.40	1.83	1.45
7E05ED-120M	12 $\pm 20\%$	0.130	1.87	1.25	1.77	1.35
7E05ED-150M	15 $\pm 20\%$	0.170	1.76	1.10	1.45	1.15
7E05ED-180M	18 $\pm 20\%$	0.210	1.53	1.00	1.26	1.05
7E05ED-220M	22 $\pm 20\%$	0.230	1.38	0.850	1.18	0.950
7E05ED-270M	27 $\pm 20\%$	0.280	1.26	0.800	1.14	0.900
7E05ED-330M	33 $\pm 20\%$	0.340	1.17	0.750	1.06	0.800
7E05ED-390M	39 $\pm 20\%$	0.390	1.05	0.700	0.940	0.700
7E05ED-470M	47 $\pm 20\%$	0.440	0.950	0.600	0.920	0.650
7E05ED-560M	56 $\pm 20\%$	0.560	0.880	0.550	0.800	0.600
7E05ED-680M	68 $\pm 20\%$	0.620	0.780	0.500	0.760	0.550
7E05ED-820M	82 $\pm 20\%$	0.810	0.700	0.450	0.630	0.500
7E05ED-101M	100 $\pm 20\%$	0.920	0.660	0.400	0.590	0.450

Inductance Measuring Condition: 100kHz, 1V($< 10\mu\text{H}$), 1kHz, 1V($\geq 10\mu\text{H}$)

DC saturation allowable current: The current value which inductance decrease within 30% from the initial value

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



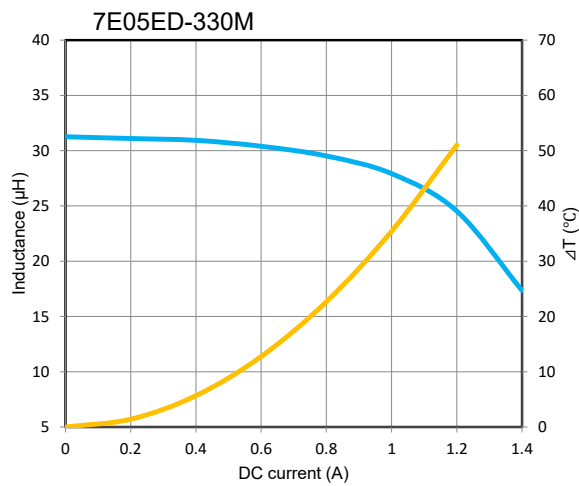
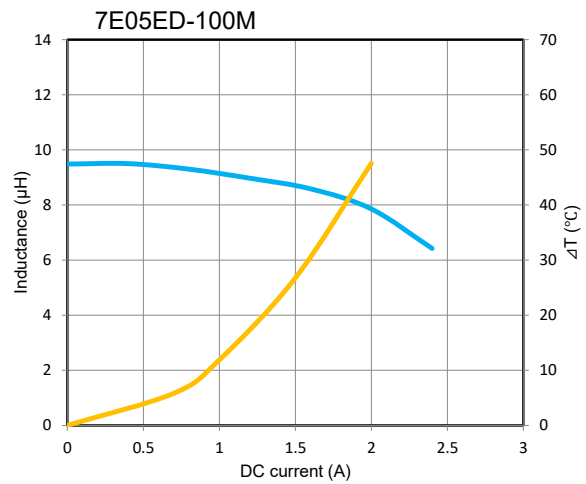
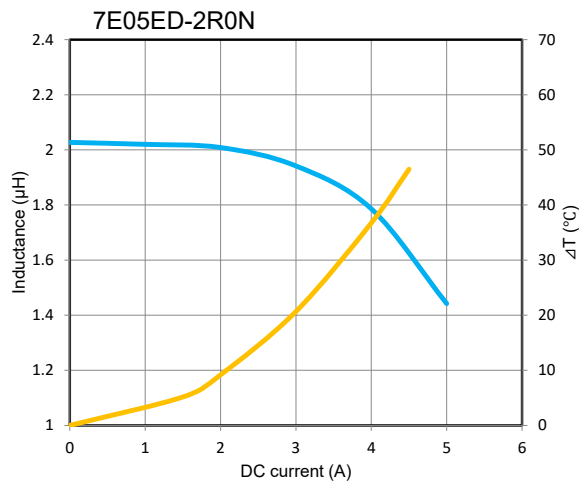
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DC bias characteristics vs Temperature Rise Graph

— $L(25^{\circ}\text{C})$
— ΔT



未掲載の定数については現在準備中ですが、ご依頼いただけましたら優先的にご用意いたします。
 Unlisted constants are currently being prepared, but will be given priority if requested.



サガミ エレク株式会社
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