



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

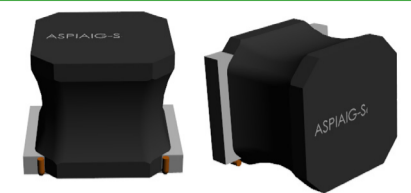
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



COMPACT SHIELDED SMD POWER INDUCTOR FOR AUTOMOTIVE



ASPIAIG-SXXXX SERIES

ASPIAIG-S6055: 6.0 x 6.0 x 5.5 mm
ASPIAIG-S8050: 8.0 x 8.0 x 5.0 mm

RoHS/RoHS II Compliant

MSL = 1

FEATURES

- High reliability wire-wound construction
- Shielded construction reduces EMI
- Automotive grade power inductor
- TS-16949 qualified production
- PPAP level 3 support
- AEC-Q200 qualified with -40°C to 125°C operation
- High inductance up to 470µH

APPLICATIONS

- Height restricted applications
- Automotive body electronics and comfort system
- Automotive infotainment and entertainment
- Automotive navigation
- Transportation
- Lighting, LED ballasts
- Industrial Internet of Things (IIoT)
- Industrial applications
- Solar power
- DC/DC converters and switch mode power supplies

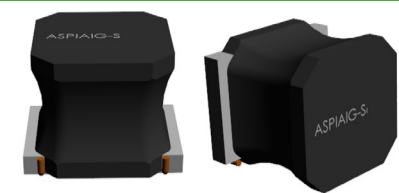
STANDARD SPECIFICATIONS

Operating Temperature	-40°C ~ +125°C
Storage Condition	-10°C ~ +40°C and R.H. 70% max

Part Number	Inductance	Tolerance	Self-resonant	DC Resistance	Saturation Current	Temperature Rise Current
	100kHz/1V		Min	Max Max (25°C)	Typ	Typ
Units	µH	%	MHz	Ω	A	A
Symbol	L	M	SRF	DCR	Isat	Irms
ASPIAIG-S6055-3R3	3.3	20	32	0.026	6.00	4.60
ASPIAIG-S6055-4R7	4.7	20	24	0.031	5.00	4.25
ASPIAIG-S6055-6R8	6.8	20	20	0.034	4.30	4.10
ASPIAIG-S6055-8R2	8.2	20	21	0.049	4.30	3.40
ASPIAIG-S6055-100	10	20	15	0.054	3.70	3.20
ASPIAIG-S6055-150	15	20	12	0.074	3.30	2.75
ASPIAIG-S6055-220	22	20	10	0.100	2.60	2.35
ASPIAIG-S6055-330	33	20	7.8	0.170	2.00	1.80
ASPIAIG-S6055-470	47	20	6.4	0.252	1.70	1.50
ASPIAIG-S6055-680	68	20	6.4	0.353	1.40	1.25
ASPIAIG-S6055-101	100	20	4.2	0.434	1.10	1.10
ASPIAIG-S6055-151	150	20	4.2	0.686	0.90	0.90
ASPIAIG-S6055-221	220	20	3.5	1.036	0.70	0.70
ASPIAIG-S6055-331	330	20	2.8	1.603	0.65	0.60
ASPIAIG-S8050-1R0	1.0	20	99	0.010	16.00	7.20
ASPIAIG-S8050-1R5	1.5	20	79	0.012	13.00	6.50
ASPIAIG-S8050-2R2	2.2	20	59	0.014	11.00	5.80
ASPIAIG-S8050-3R3	3.3	20	24	0.020	9.00	4.90
ASPIAIG-S8050-4R7	4.7	20	23	0.023	7.50	4.60
ASPIAIG-S8050-6R8	6.8	20	19	0.029	6.10	4.20
ASPIAIG-S8050-8R2	8.2	20	18	0.035	5.60	3.80
ASPIAIG-S8050-100	10	20	14	0.038	5.20	3.60
ASPIAIG-S8050-150	15	20	13	0.061	4.50	2.70
ASPIAIG-S8050-220	22	20	9.0	0.088	3.50	2.20
ASPIAIG-S8050-330	33	20	7.6	0.122	3.00	2.00
ASPIAIG-S8050-470	47	20	6.6	0.173	2.40	1.70
ASPIAIG-S8050-680	68	20	5.4	0.252	2.00	1.45
ASPIAIG-S8050-101	100	20	4.4	0.326	1.60	1.25
ASPIAIG-S8050-151	150	20	3.2	0.480	1.40	1.00
ASPIAIG-S8050-221	220	20	2.9	0.708	1.10	0.75
ASPIAIG-S8050-331	330	20	2.3	1.044	0.90	0.65
ASPIAIG-S8050-471	470	M	1.9	1.540	0.80	0.55

REVISED: 12.21.2016

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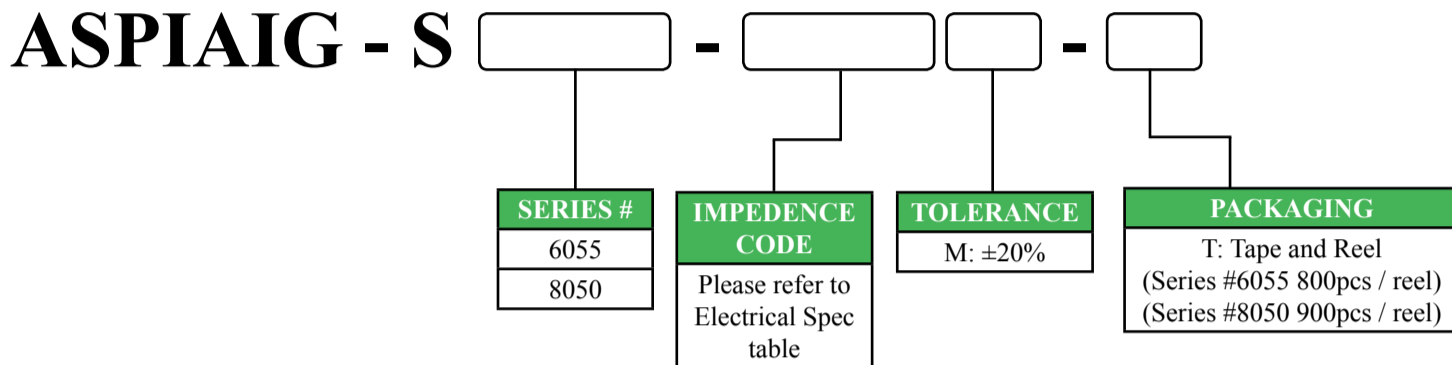
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ASPIAIG-S8050: 8.0 x 8.0 x 5.0 mm

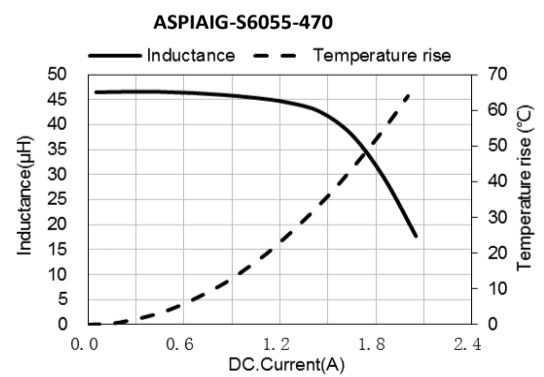
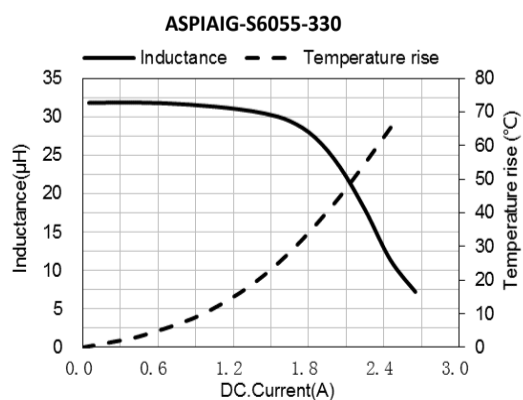
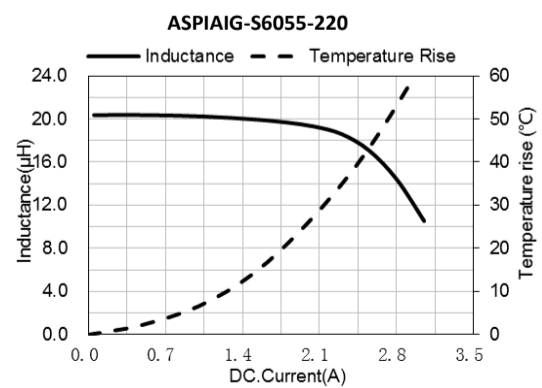
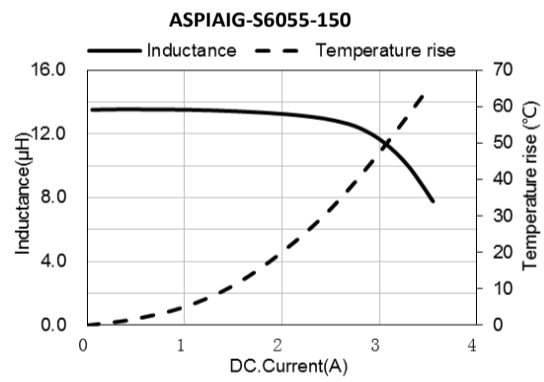
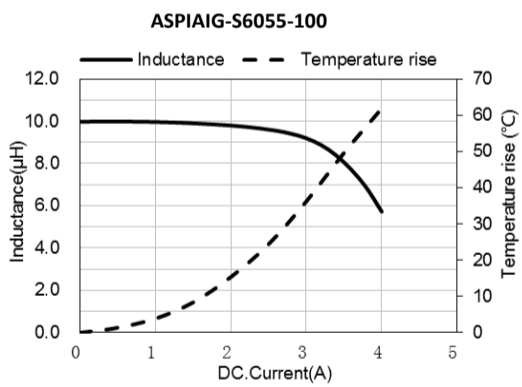
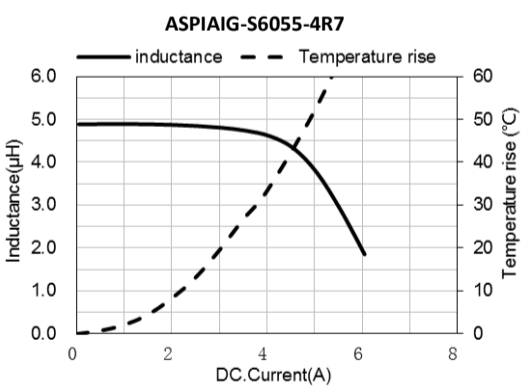
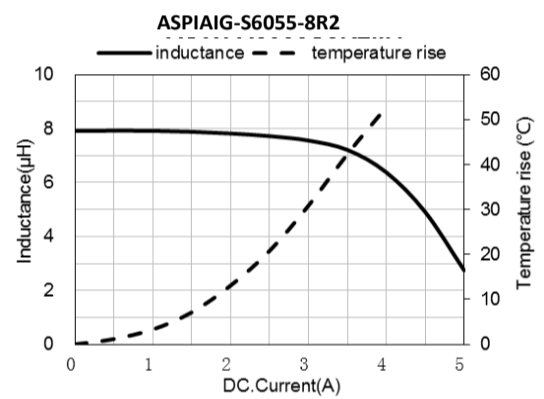
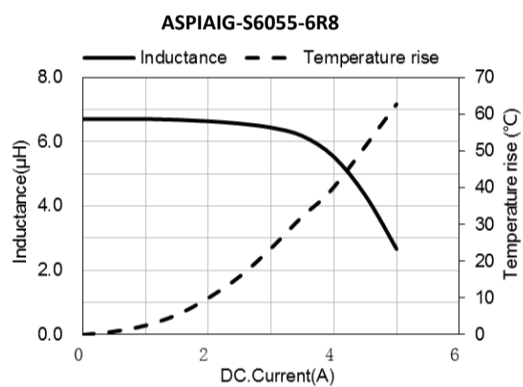
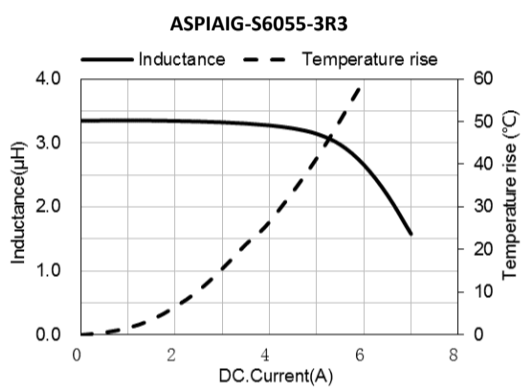
Pb RoHS/RoHS II Compliant

MSL = 1

PART NUMBER IDENTIFICATION



ELECTRICAL CHARACTERISTICS



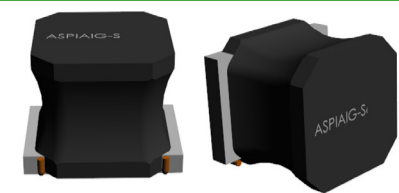
REVISED: 12.21.2016



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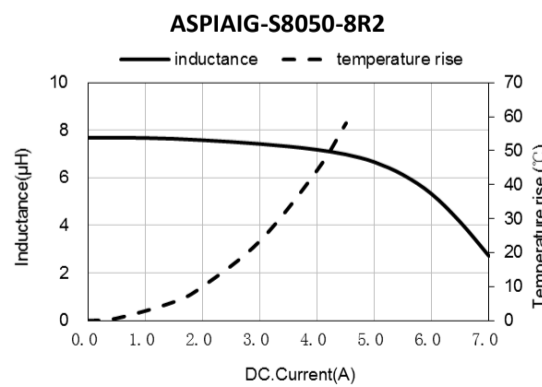
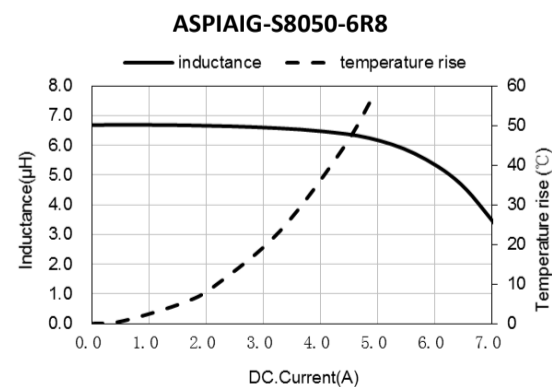
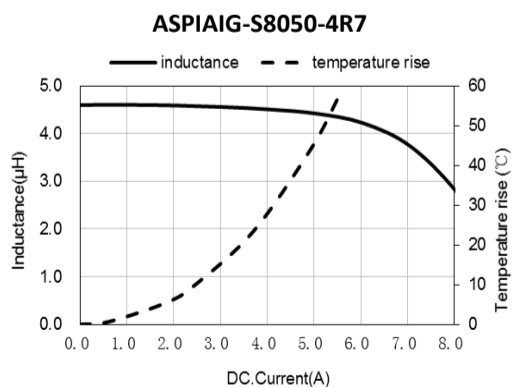
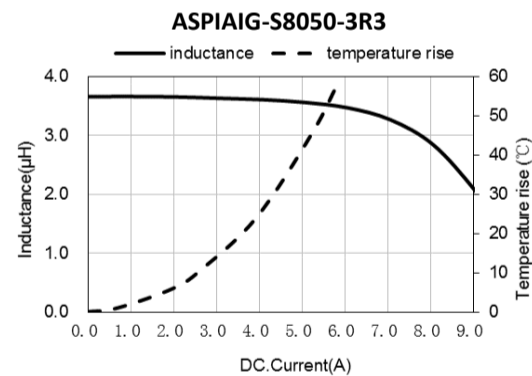
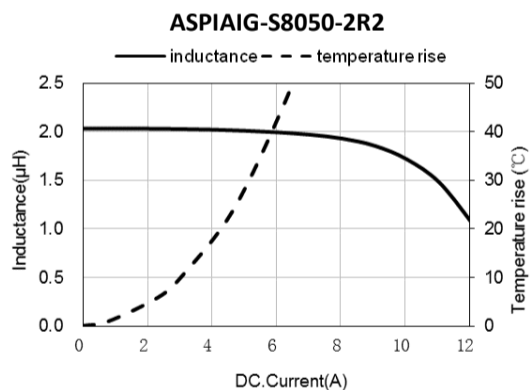
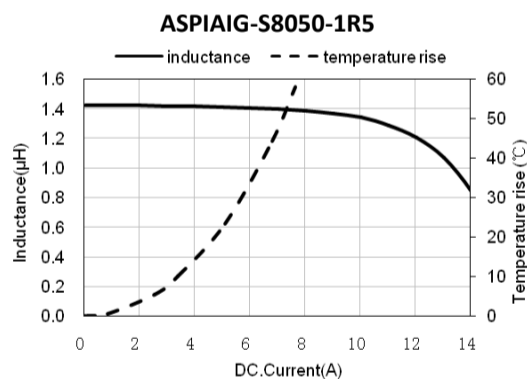
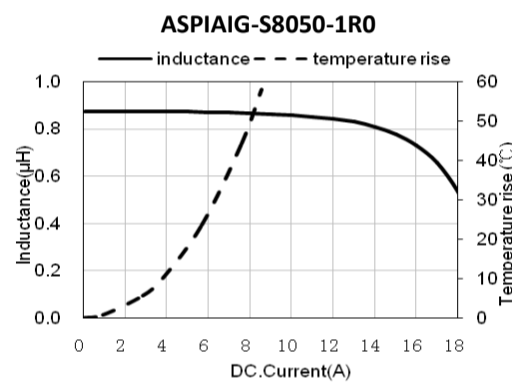
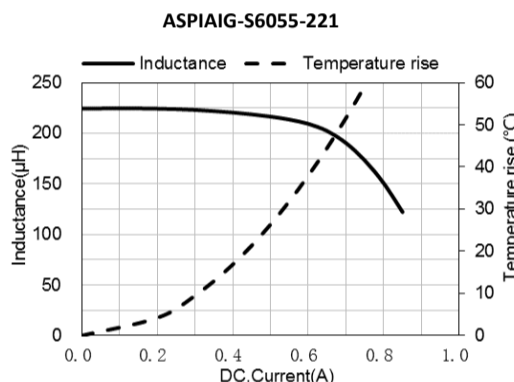
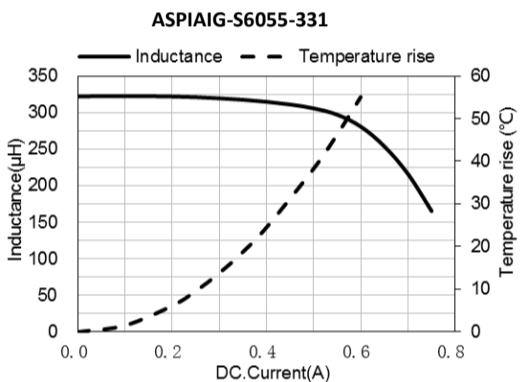
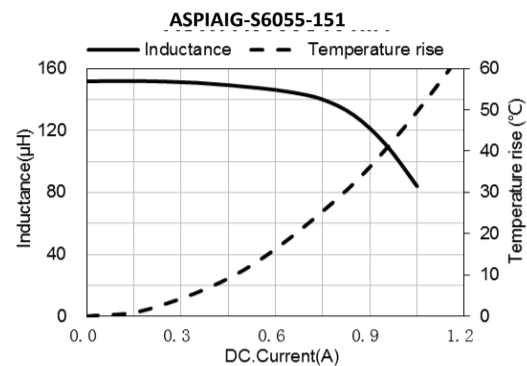
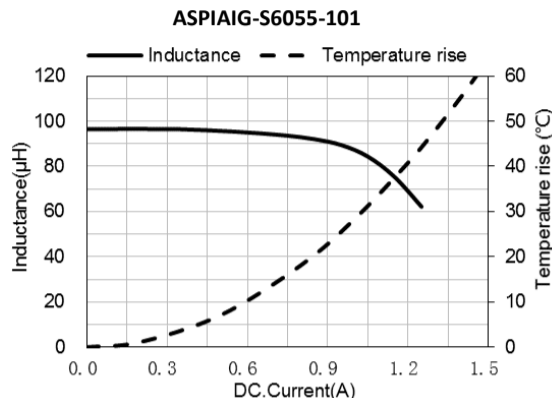
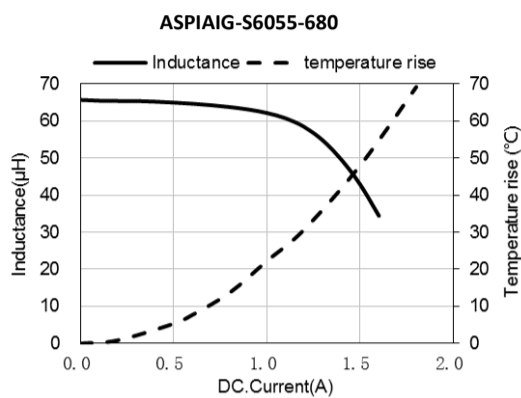
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ASPIAIG-S8050: 8.0 x 8.0 x 5.0 mm

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ELECTRICAL CHARACTERISTICS



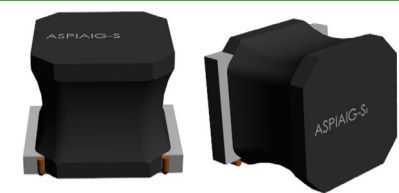
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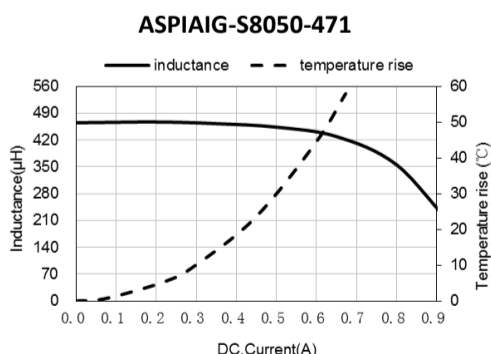
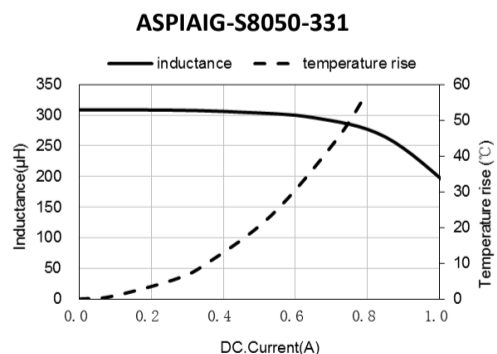
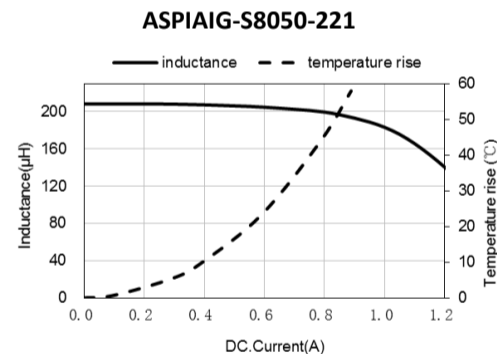
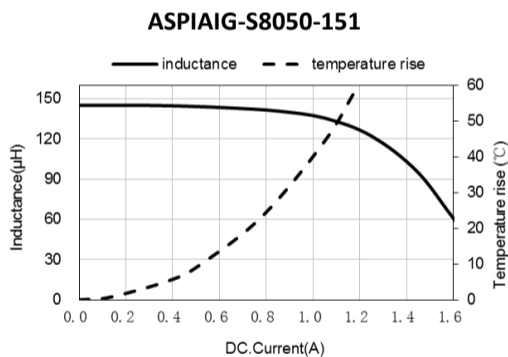
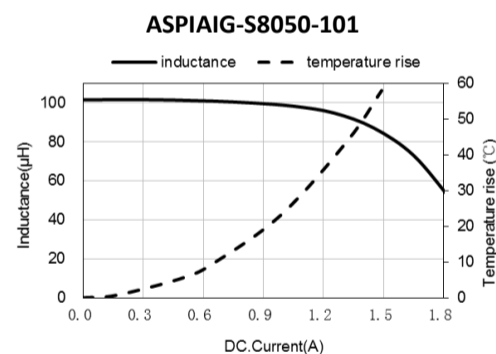
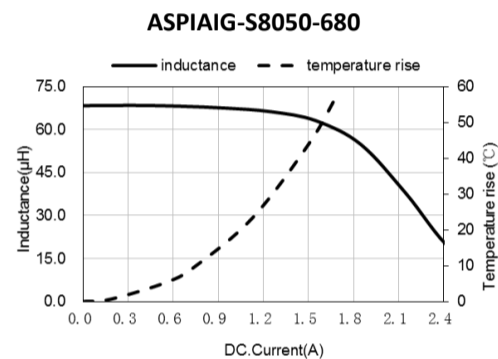
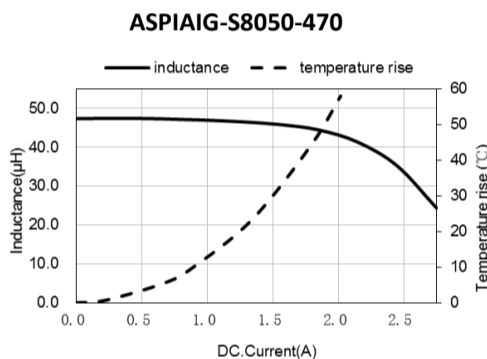
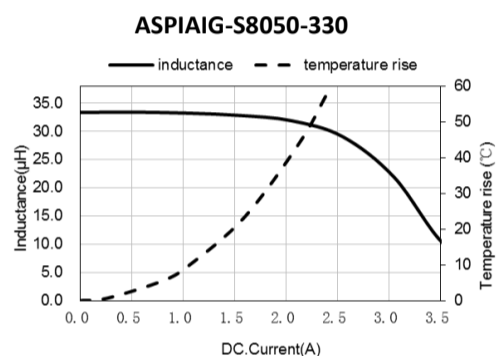
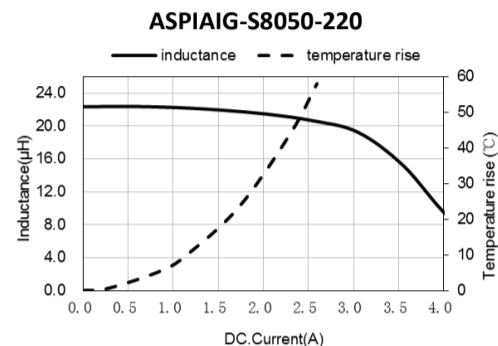
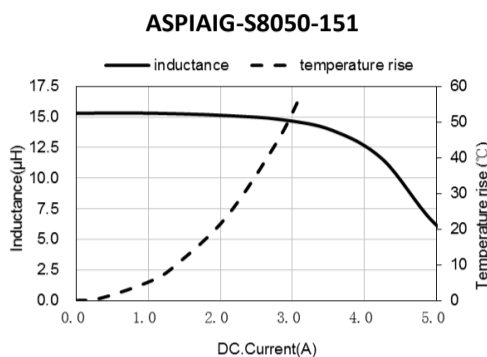
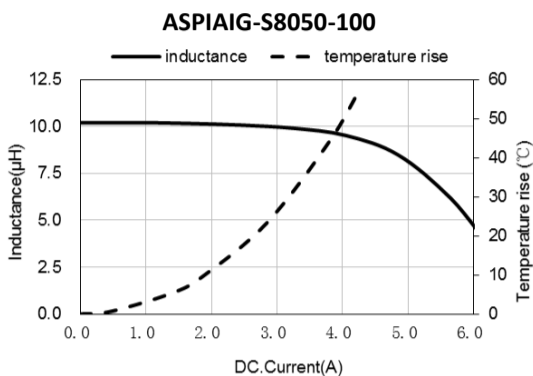
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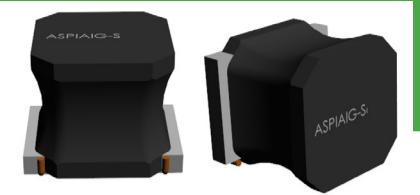
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MSL = 1

ELECTRICAL CHARACTERISTICS



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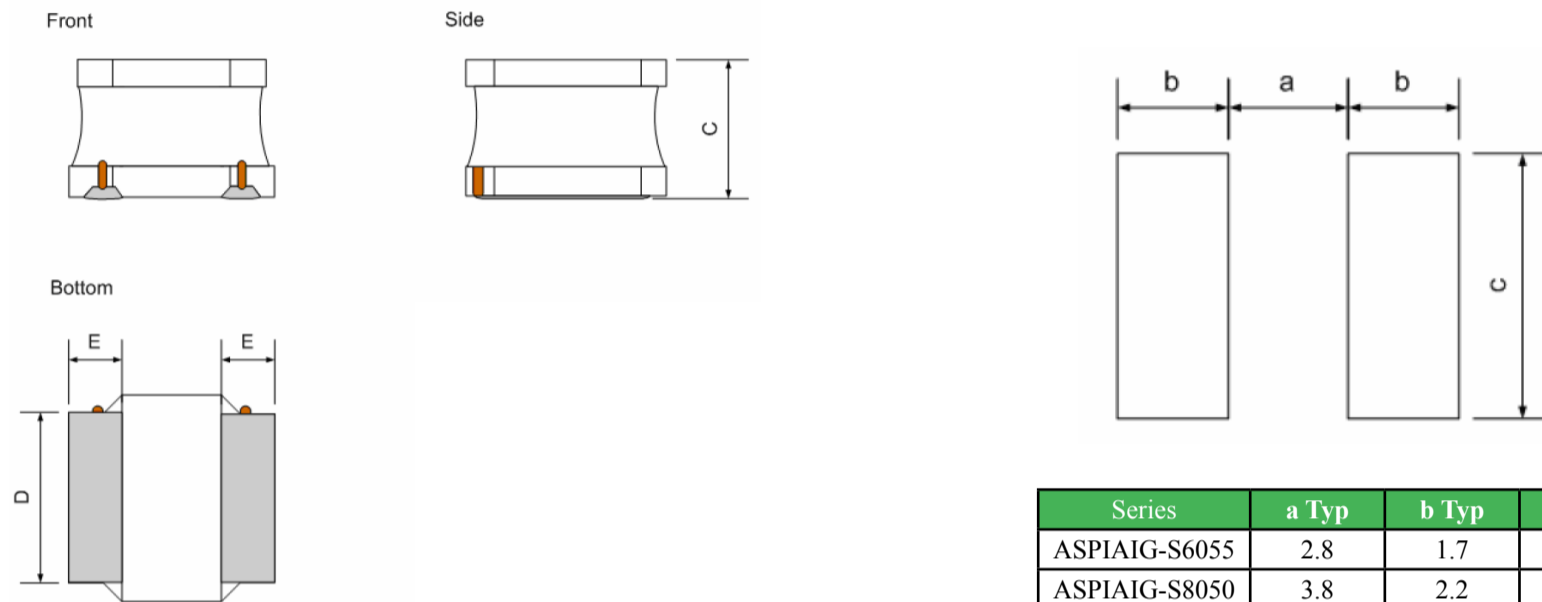
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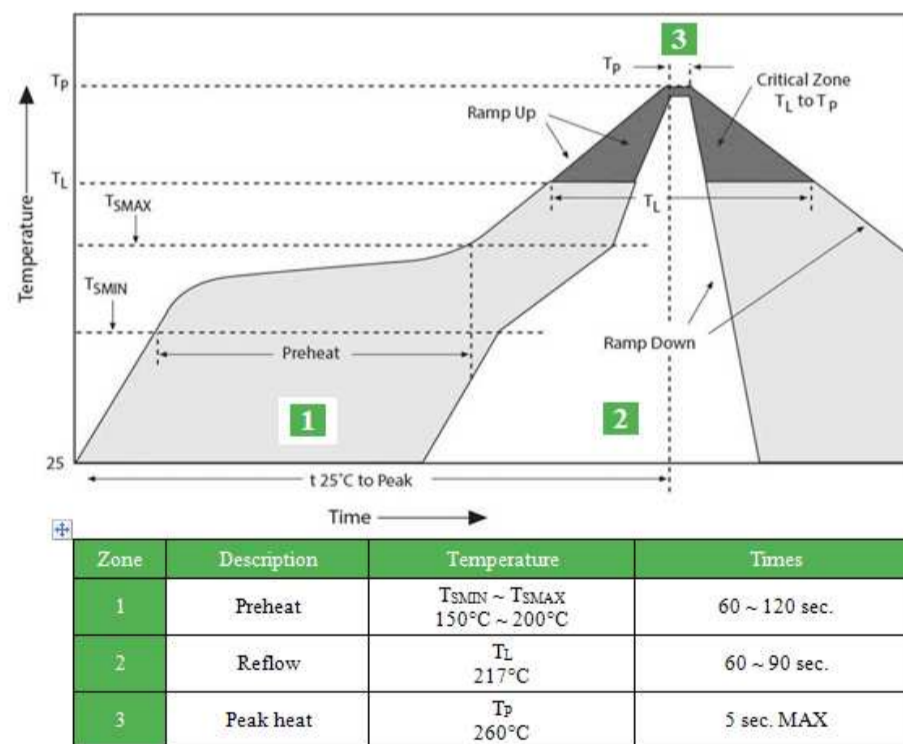
MSL = 1

MECHANICAL DIMENSIONS

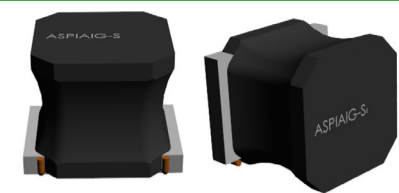


Series	A	B	C	D	E
ASPIAIG-S6055	6.0 ± 0.2	6.0 ± 0.2	5.5 ± 0.2	4.9 ± 0.2	1.55 ± 0.3
ASPIAIG-S8050	8.0 ± 0.3	8.0 ± 0.3	5.0 ± 0.2	6.3 ± 0.3	2.0 ± 0.2

REFLOW PROFILE



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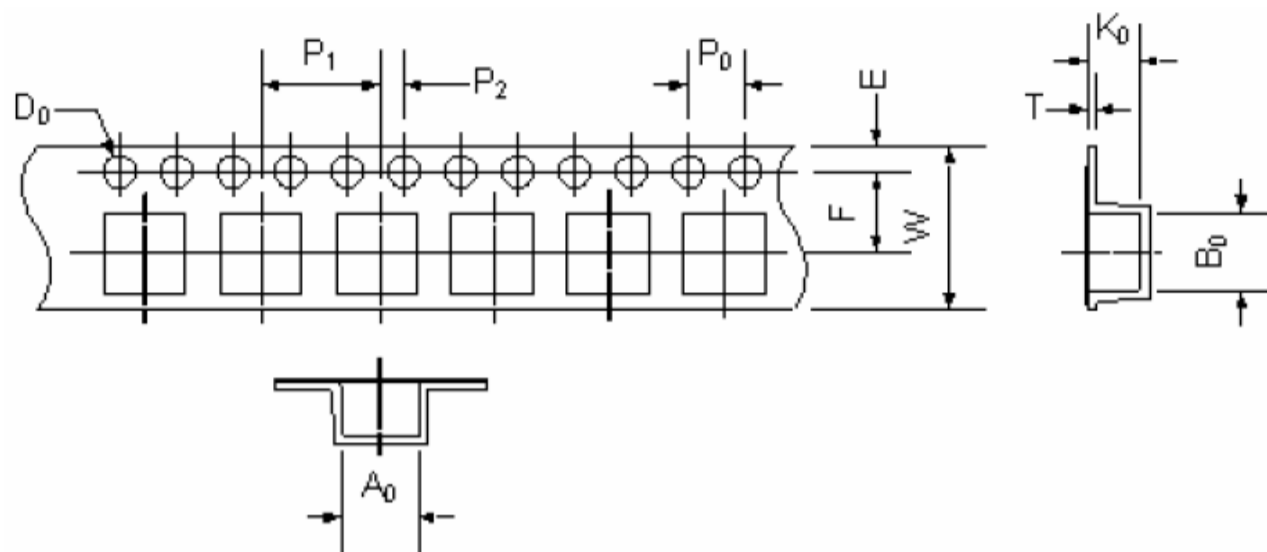
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PACKAGING

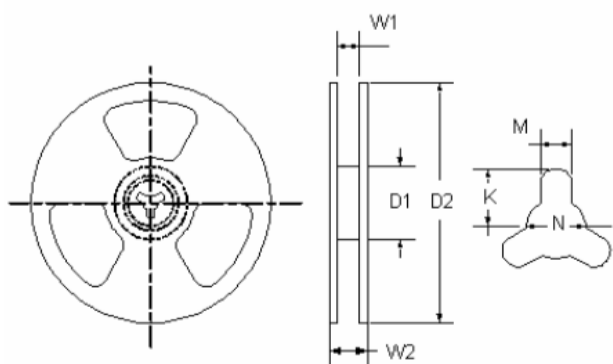
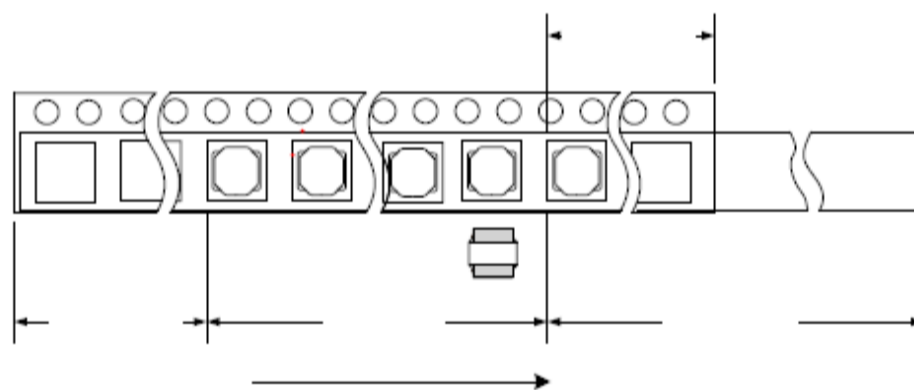
TAPE AND REEL: 800 PCS/REEL (S6055)

TAPE AND REEL: 900 PCS/REEL (S8050)



SERIES#	W	E	F	P0	P1	P2	D0	A0	B0	T	K0
ASPIAIG-S6055	16.0±0.3	1.75±0.1	7.5±0.1	4.0±0.1	8.0±0.1	2.0±0.1	1.5+0.1/-0.0	6.3±0.1	6.3±0.1	0.50±0.05	5.7±0.1
ASPIAIG-S8050	16.0±0.3	1.75±0.1	7.5±0.1	4.0±0.1	12.0±0.1	2.0±0.1	1.5+0.1/-0.0	8.3±0.1	8.3±0.1	0.50±0.05	5.2±0.1

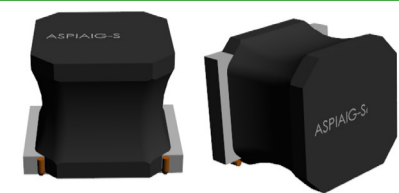
PACKAGING: DIRECTION OF ROLLING



D1	100 ± 0.5
D2	330 ± 0.1
W1	16.4 +0.2 / -0.0
W2	22.4 MAX
K	10.75 ± 0.2
M	2.3 ± 0.2
N	13.0 +0.2 / -0.0

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NOTES

1. The parts are manufactured in accordance with this specification. If other conditions and specifications which are required for this specification, please contact ABRACON for more information.
2. ABRACON will supply the parts in accordance with this specification unless we receive a written request to modify prior to an order placement.
3. In no case shall ABRACON be liable for any product failure from in appropriate handling or operation of the item beyond the scope of this specification.
4. When changing your production process, please notify ABRACON immediately.
5. ABRACON LLC's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. ABRACON's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from ABRACON Corporation is required. Please contact ABRACON Corporation for more information.
6. All specifications and Marking will be subject to change without notice.