



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

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AUTOMOTIVE GRADE SHIELDED SMD POWER INDUCTOR



ASPIAIG-S4035

4.0 x 4.0 x 3.5 mm
MSL = 1

 **RoHS/RoHS II Compliant**

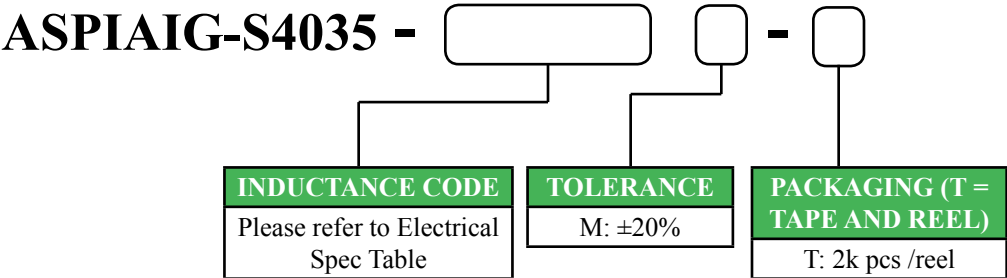
FEATURES

- TS-16949 qualified production
- PPAP level 3 support
- AEC-Q200 qualified with -40°C to 125°C operation
- High reliability wire-wound construction
- Shielded construction reduces EMI
- High inductance up to 150µH
- Low DCR down to 2.28 mΩ

APPLICATIONS

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

OPTIONS AND PART IDENTIFICATION



ELECTRICAL SPECIFICATIONS

OPERATING TEMPERATURE		STORAGE CONDITION				
-40°C ~ +125°C		-10°C ~ +40°C and R.H. 70% max				
PART NUMBER	INDUCTANCE	TOLERANCE	SELF-RESONANT FREQUENCY	DC RESISTANCE	SATURATION CURRENT	TEMPERATURE RISE CURRENT
	0.1MHz/0.1V		Min	Max	Max	Typ
UNITS	µH	%	MHz	mΩ	A	A
SYMBOL	L	M	SRF	DCR	Isat	Irms
ASPIAIG-S4035-1R0	1.0	M	121	0.024	6.90	4.50
ASPIAIG-S4035-1R2	1.2	M	70	0.028	6.70	4.20
ASPIAIG-S4035-1R5	1.5	M	60	0.030	6.10	3.90
ASPIAIG-S4035-1R8	1.8	M	52	0.034	5.50	3.70
ASPIAIG-S4035-2R2	2.2	M	52	0.040	4.80	3.50
ASPIAIG-S4035-3R3	3.3	M	38	0.058	3.80	2.90
ASPIAIG-S4035-4R7	4.7	M	31	0.082	3.20	2.45
ASPIAIG-S4035-6R8	6.8	M	24	0.101	2.80	2.20
ASPIAIG-S4035-8R2	8.2	M	26	0.112	2.40	2.10
ASPIAIG-S4035-100	10	M	21	0.14	2.30	1.85
ASPIAIG-S4035-150	15	M	16	0.23	1.80	1.45
ASPIAIG-S4035-220	22	M	10	0.29	1.50	1.30
ASPIAIG-S4035-330	33	M	10	0.42	1.30	1.05
ASPIAIG-S4035-470	47	M	8.4	0.59	1.05	0.90
ASPIAIG-S4035-680	68	M	7.0	1.09	0.85	0.65
ASPIAIG-S4035-101	100	M	5.6	1.38	0.75	0.55
ASPIAIG-S4035-151	150	M	4.0	2.28	0.55	0.45

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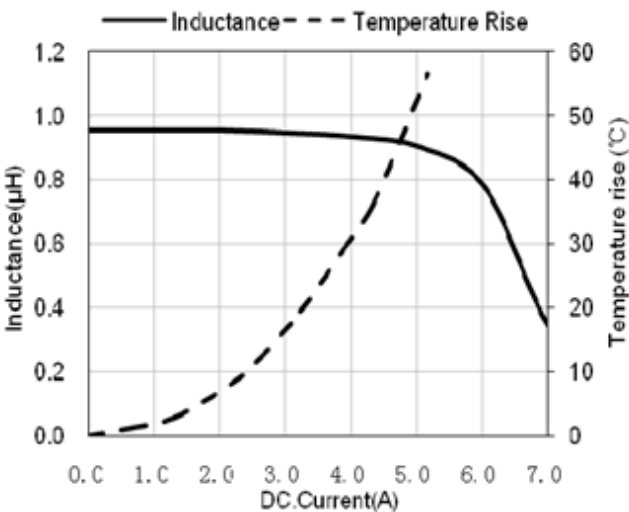
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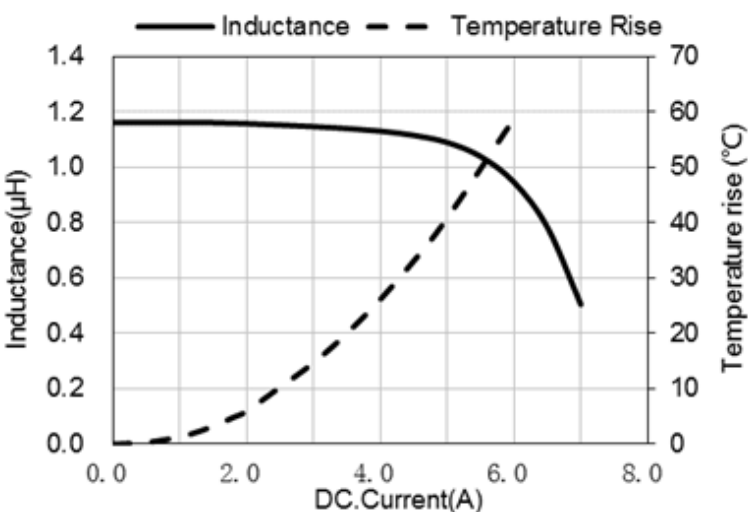
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ELECTRICAL CHARACTERISTICS

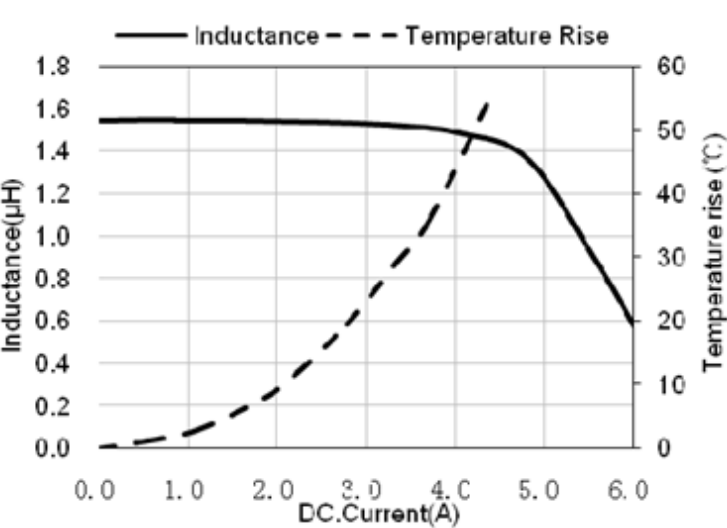
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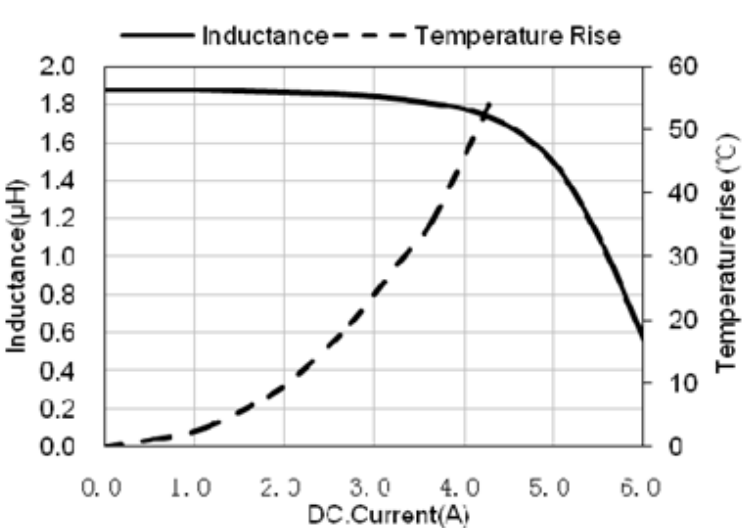
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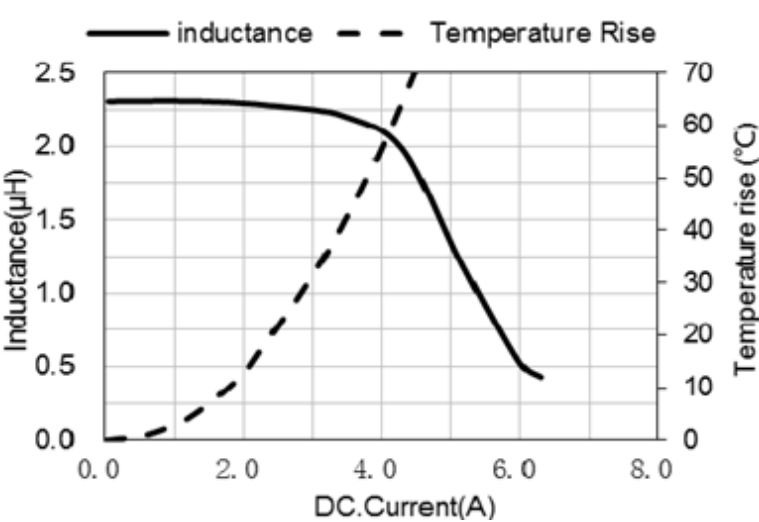
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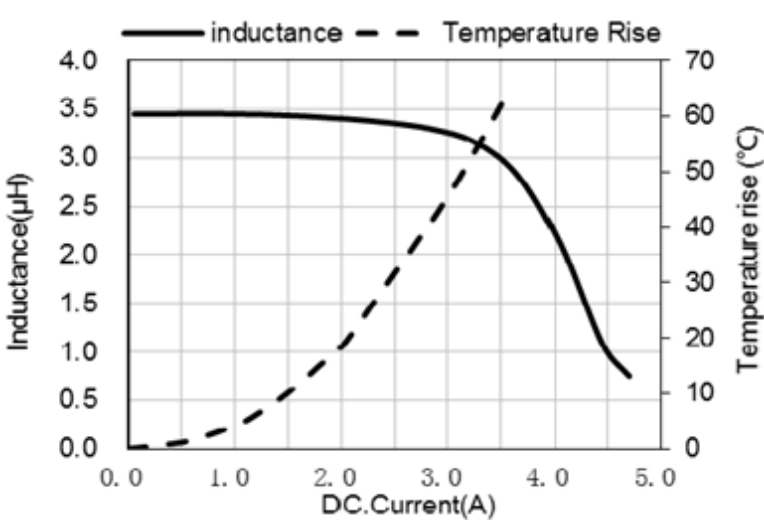
ASPIAIG-S4035-1R8



ASPIAIG-S4035-2R2



ASPIAIG-S4035-3R3



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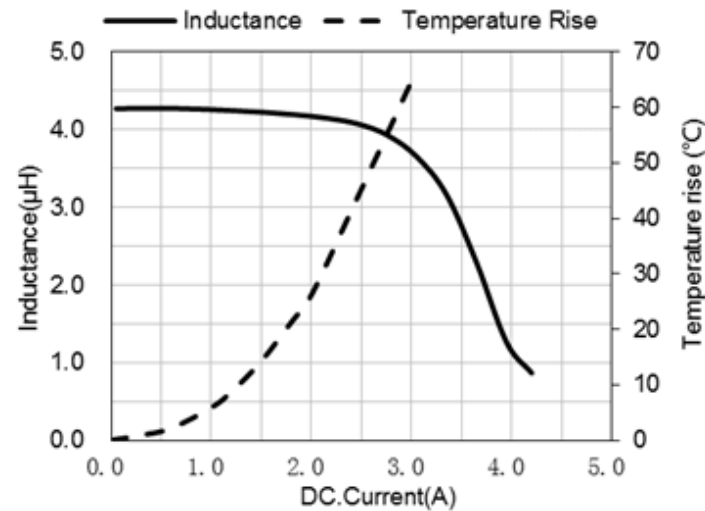
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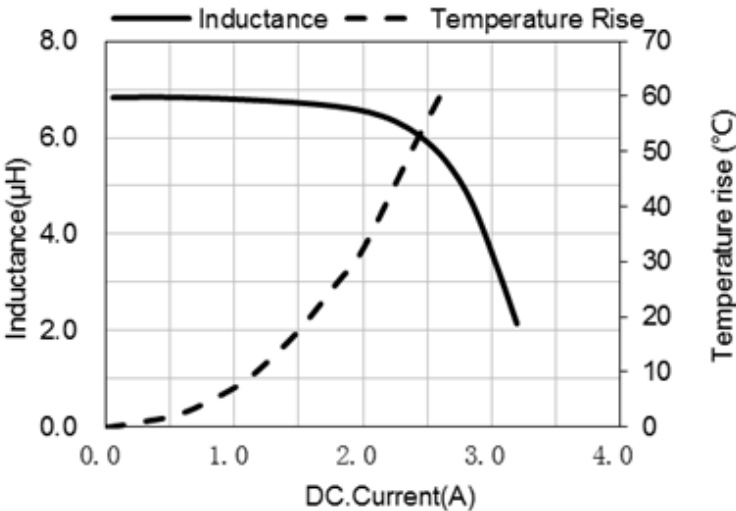
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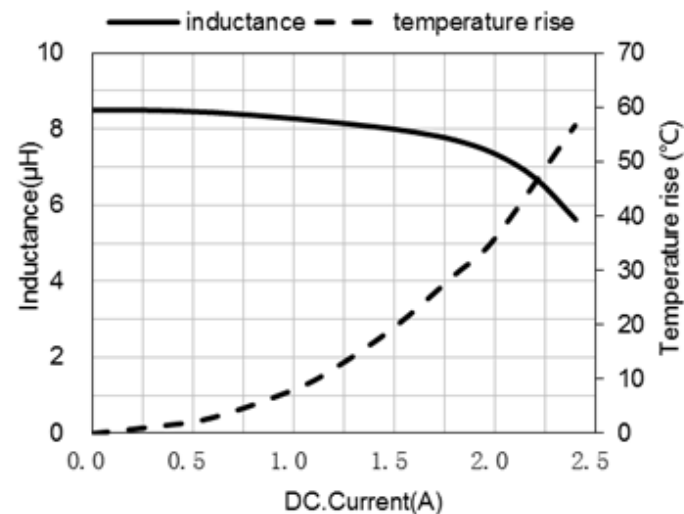
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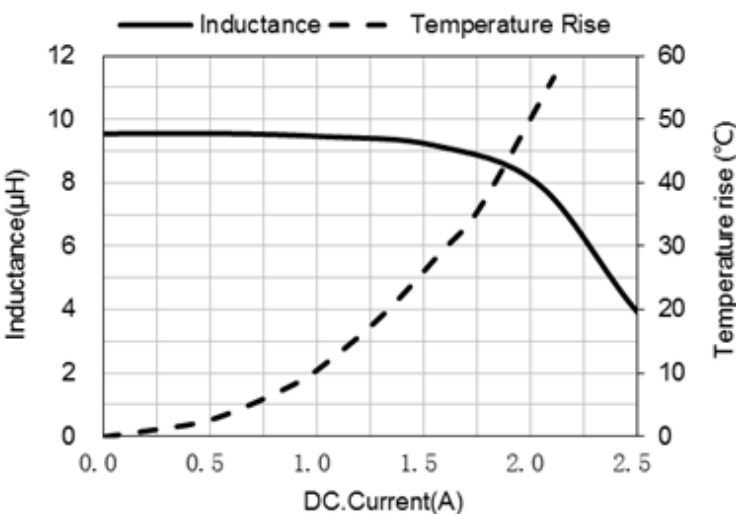
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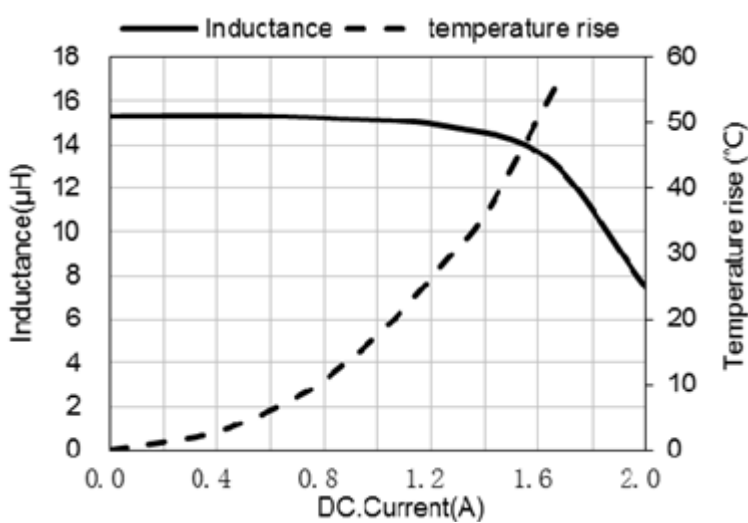
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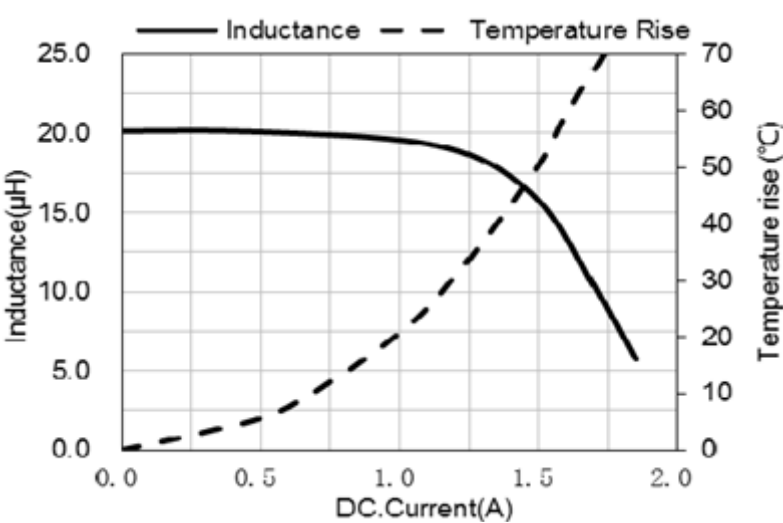
ASPIAIG-S4035-100



ASPIAIG-S4035-150



ASPIAIG-S4035-220



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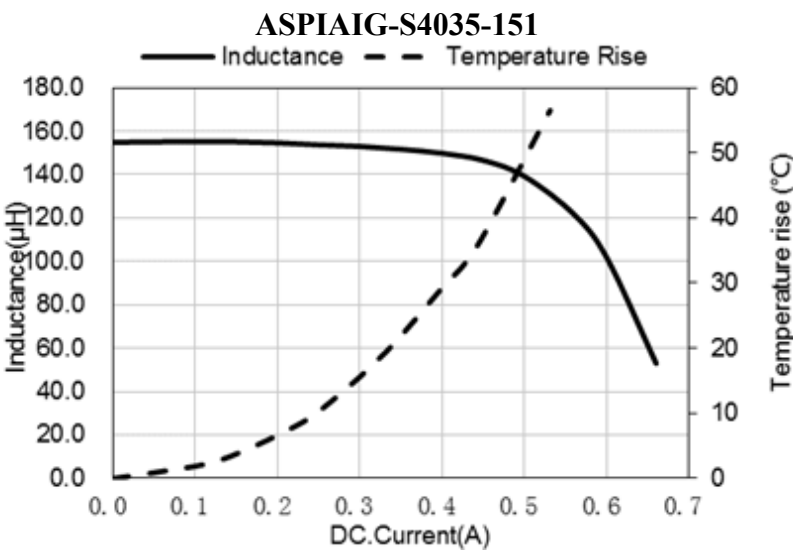
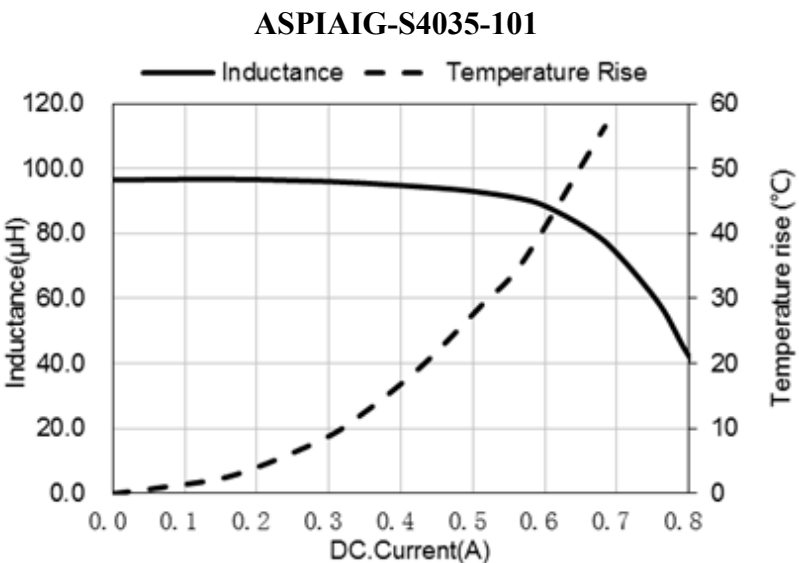
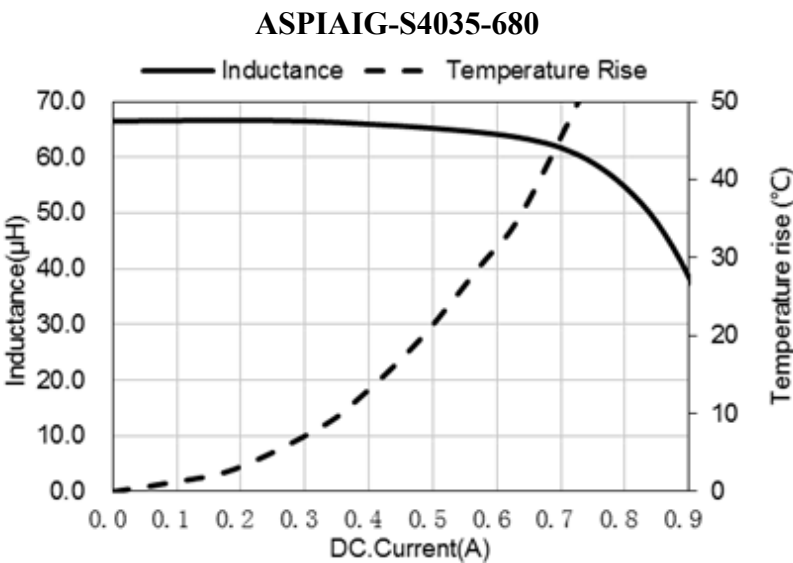
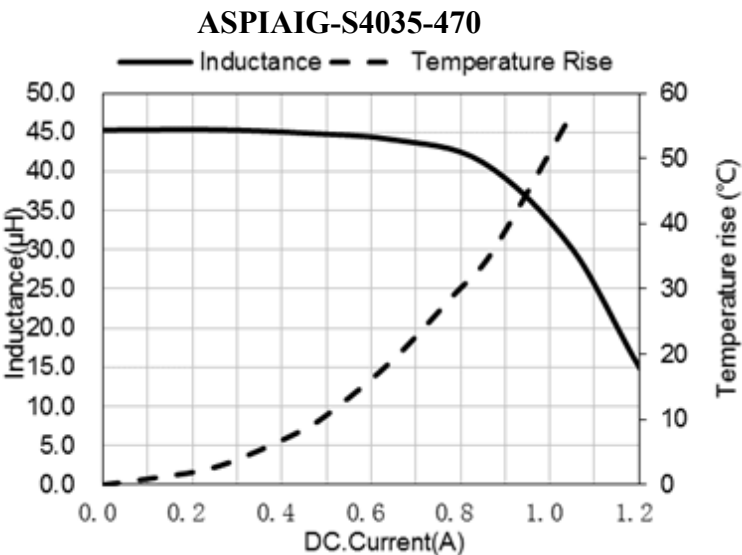
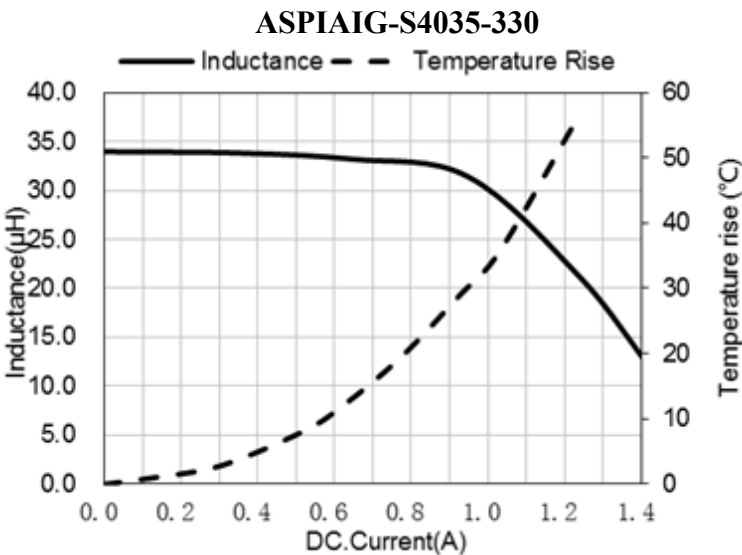


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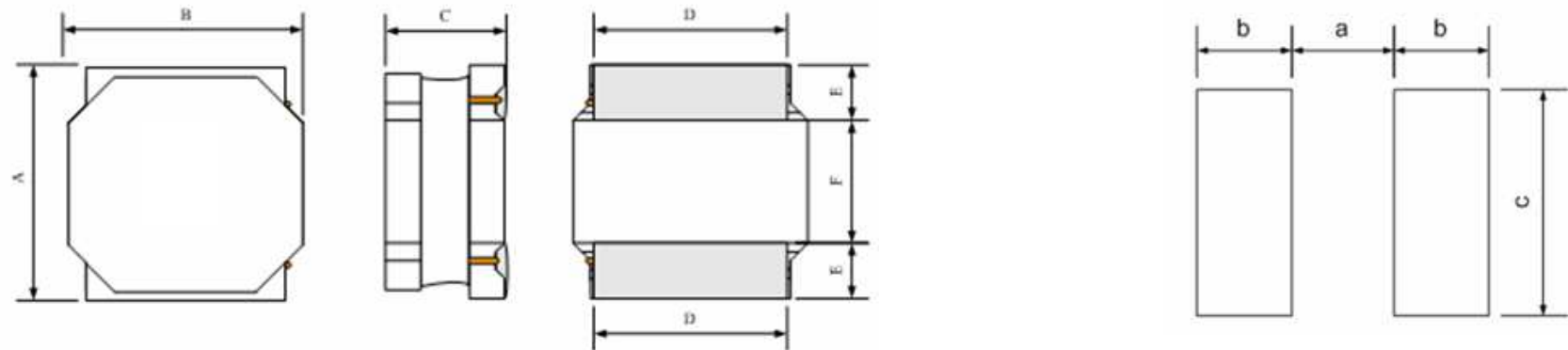


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MECHANICAL DIMENSIONS

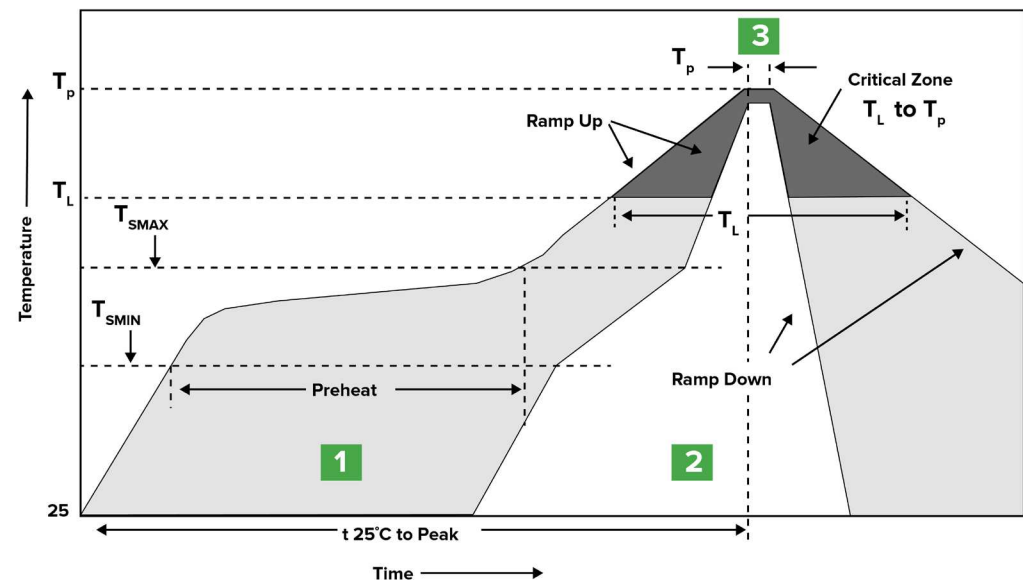


SERIES	A	B	C	D	E
ASPIAIG-S4035	4.0 ± 0.2	4.0 ± 0.2	3.5 ± 0.2	3.2 ± 0.1	0.95 ± 0.1

A TYP	B TYP	C TYP
1.9	1.1	3.7

Dimension: mm

REFLOW



Zone	Description	Temperature	Times
1	Preheat	T _{SMIN} ~ T _{SMAX} 150°C ~ 200°C	60 ~ 120 sec.
2	Reflow	T _L 217°C	60 ~ 90 sec.
3	Peak heat	T _P 260°C	5 sec. MAX

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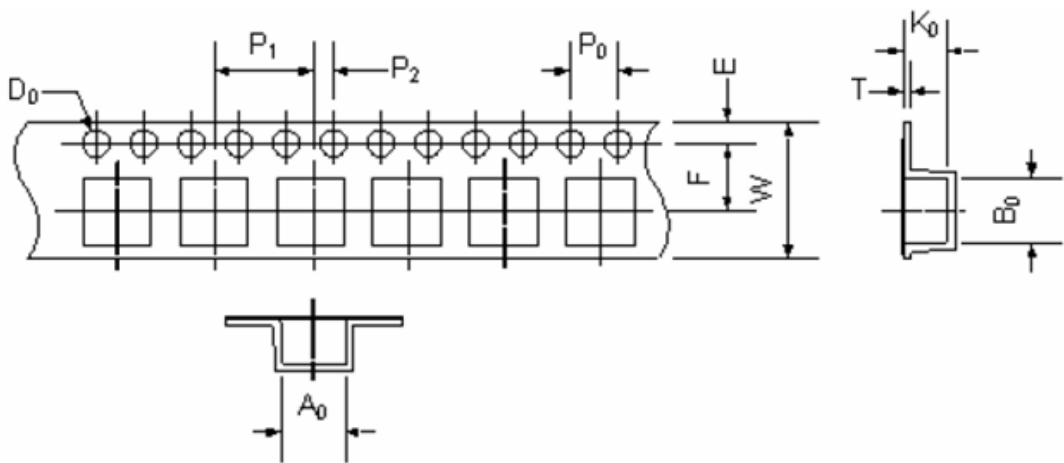


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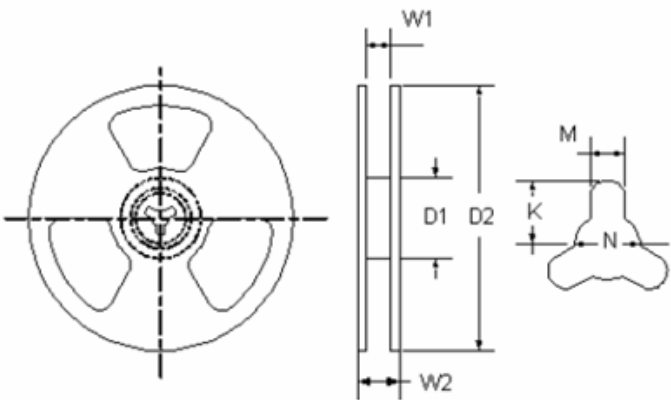
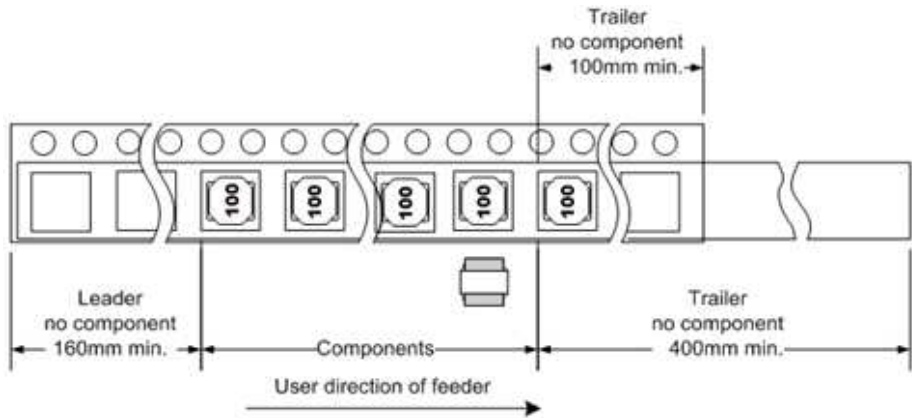
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PACKING (TAPE & REEL: 2000 PCS/REEL)



W	E	F	P ₀	P ₁	P ₂	D ₀	A ₀	B ₀	T	K ₀
12.0±0.3	1.75±0.1	5.5±0.1	4.0±0.1	8.0±0.1	2.0±0.1	1.5+0.1/-0.0	4.3±0.1	4.3±0.1	0.40±0.05	3.7±0.1

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

Dimension: mm