

ECN/PCN No.: M1149

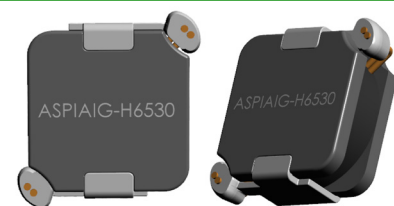
For Manufacturer			
Product Description: Shielded SMD Power Inductor		Abrakon Part Number / Part Series: ASPIAIG-H6530	
		☒ Series ☐ Part Number	
Affected Revision: A	New Revision: B	Application	
		☐ Safety ☒ Non-Safety	
Prior to Change:			
After Change: EOL			
Cause/Reason for Change: No business activity			
Change Plan	Effective Date: Feb 14,2020	Additional Remarks: N/A	
Change Declaration:			
Issued Date: 02/19/2020			
For Abracon EOL only			
Last Time Buy (if applicable): last time buy date to April 15 th 2020.		Alternate Part Number / Part Series: N/A	
Additional Approval: N/A	Additional Approval: N/A	Additional Approval: N/A	

ECN/PCN No.: M1150

For Manufacturer			
Product Description: Shielded SMD Power Inductor		Abrakon Part Number / Part Series: ASPIAIG-H8540	
		☒ Series ☐ Part Number	
Affected Revision: A	New Revision: B	Application	
		☐ Safety ☒ Non-Safety	
Prior to Change:			
After Change: EOL			
Cause/Reason for Change: No business activity			
Change Plan	Effective Date: Feb 14, 2020	Additional Remarks: N/A	
Change Declaration:			
Issued Date: 02/19/2020			
For Abracon EOL only			
Last Time Buy (if applicable): last time buy date to April 15th 2020.		Alternate Part Number / Part Series: N/A	
Additional Approval: N/A	Additional Approval: N/A	Additional Approval: N/A	

COMPACT SHIELDED SMD POWER INDUCTOR FOR AUTOMOTIVE

ASPIAIG-HXXXX SERIES



ASPIAIG-H6530: 7.1 x 6.5 x 3.0 mm
ASPIAIG-H8540: 8.8 x 8.5 x 4.0 mm



RoHS/RoHS II Compliant

MSL = 1

FEATURES

- Low profile 3mm height for compact applications
- Advanced and 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
- Low DCR down to 3.5mΩ improves efficiency
- High saturation current up to 32A
- Compact 7.1 x 6.5mm or 8.8 x 8.5mm options

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

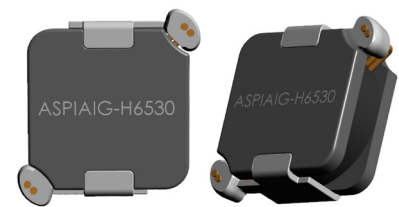
STANDARD SPECIFICATIONS

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 (25°C)	Typ	Typ
Units	μH	%	MHz	mΩ	A	A
Symbol	L	M	SRF	DCR	Isat	Irms
ASPIAIG-H6530-R22	0.22	20	108	4.0	25.00	20.00
ASPIAIG-H6530-R33	0.33	20	78	5.1	23.00	17.50
ASPIAIG-H6530-R47	0.47	20	71	6.6	22.50	15.50
ASPIAIG-H6530-R68	0.68	20	57	8.7	18.00	13.45
ASPIAIG-H6530-R75	0.75	20	55	8.7	15.80	13.45
ASPIAIG-H6530-1R0	1.0	20	41	8.7	13.00	13.45
ASPIAIG-H6530-1R5	1.5	20	37	13.8	11.50	8.50
ASPIAIG-H6530-2R2	2.2	20	24	18.0	8.60	8.00
ASPIAIG-H6530-3R3	3.3	20	23	30.5	6.60	7.00
ASPIAIG-H6530-4R7	4.7	20	15	43.5	5.30	5.40
ASPIAIG-H6530-6R8	6.8	20	14	64.0	4.50	4.50
ASPIAIG-H6530-8R2	8.2	20	13	69.0	4.50	4.40
ASPIAIG-H6530-100	10.0	20	12	77.4	4.45	4.20
ASPIAIG-H6530-150	15.0	20	11	127.0	4.25	3.50
ASPIAIG-H6530-220	22.0	20	8	177.0	2.40	2.80
ASPIAIG-H8540-R47	0.47	20	57	3.5	32.0	11.3
ASPIAIG-H8540-1R0	1.0	20	49	6.5	20.0	8.4
ASPIAIG-H8540-1R5	1.5	20	38	7.7	17.0	7.6
ASPIAIG-H8540-2R2	2.2	20	29	12.0	14.0	6.1
ASPIAIG-H8540-3R3	3.3	20	24	19.9	15.0	4.9
ASPIAIG-H8540-4R7	4.7	20	19	27.6	12.5	4.2
ASPIAIG-H8540-5R6	5.6	20	17	30.6	11.0	3.9
ASPIAIG-H8540-6R8	6.8	20	15	37.4	8.0	3.8
ASPIAIG-H8540-8R2	8.2	20	14	46.8	8.5	3.7
ASPIAIG-H8540-100	10.0	20	12	53.9	8.0	3.5
ASPIAIG-H8540-150	15.0	20	10	74.4	6.5	3.0
ASPIAIG-H8540-220	22.0	20	7	108.6	4.2	2.5
ASPIAIG-H8540-330	33.0	20	6	178.8	4.2	2.0

COMPACT SHIELDED SMD POWER INDUCTOR FOR AUTOMOTIVE

ASPIAIG-HXXXX SERIES



ASPIAIG-H6530: 7.1 x 6.5 x 3.0 mm
ASPIAIG-H8540: 8.8 x 8.5 x 4.0 mm

PART NUMBER IDENTIFICATION

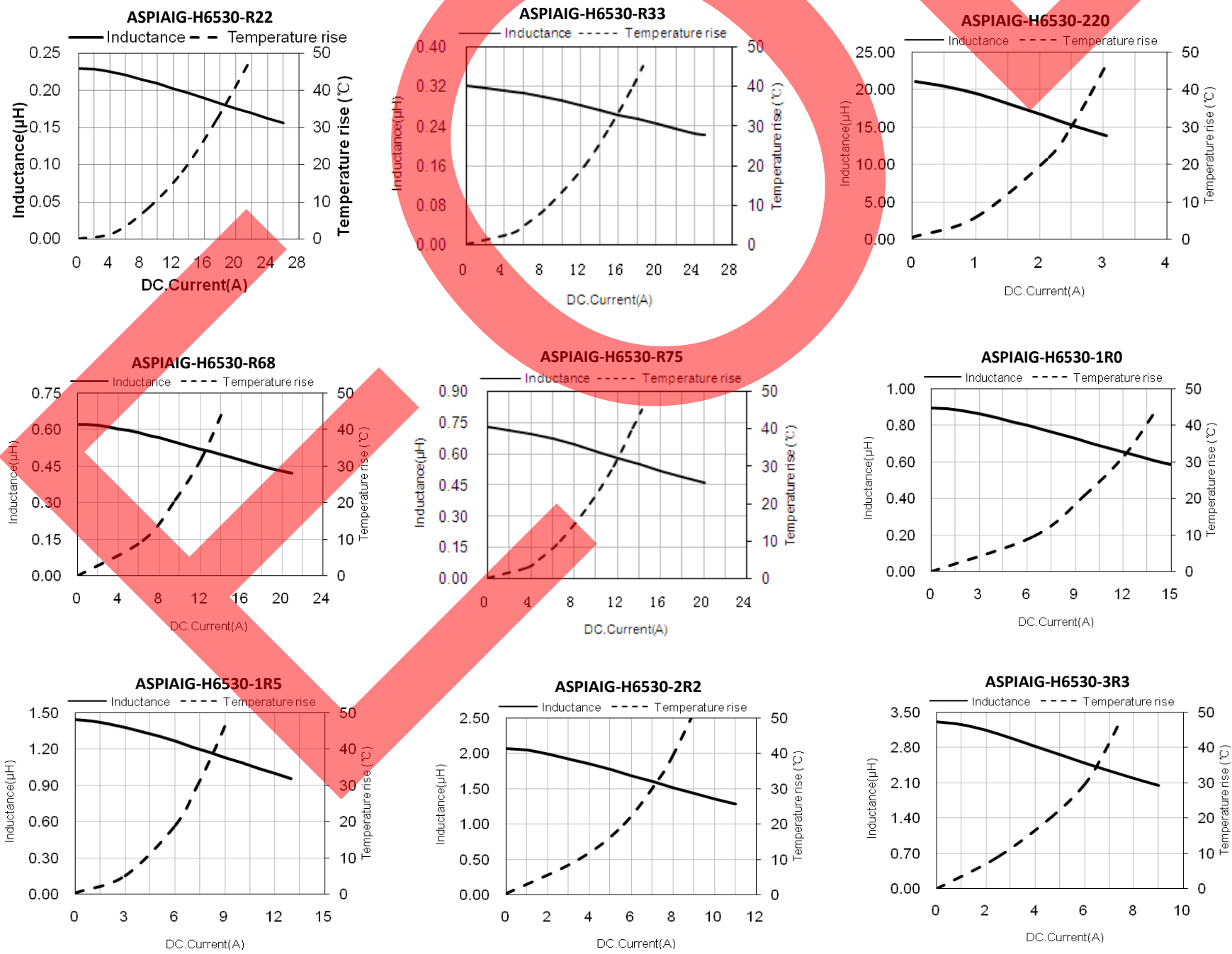
RoHS/RoHS II Compliant

MSL = 1

ASPIAIG - H - -

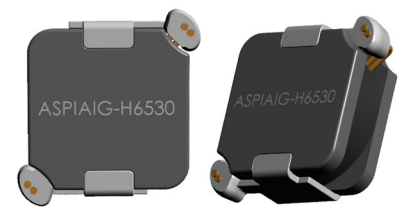
SERIES #	IMPEDENCE CODE	TOLERANCE	PACKAGING
6530	Please refer to Electrical Spec table	M: $\pm 20\%$	T: Tape and Reel (1Kpcs / reel)
8540			

ELECTRICAL CHARACTERISTICS



COMPACT SHIELDED SMD POWER INDUCTOR FOR AUTOMOTIVE

ASPIAIG-HXXXX SERIES



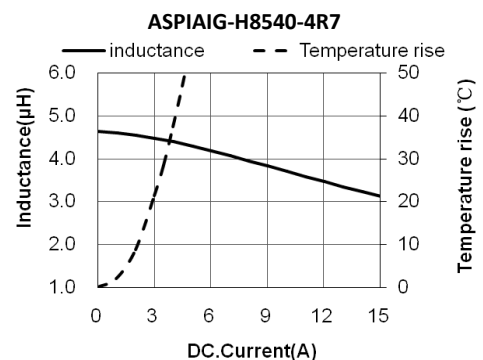
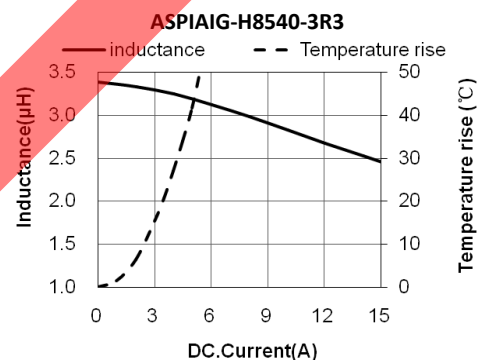
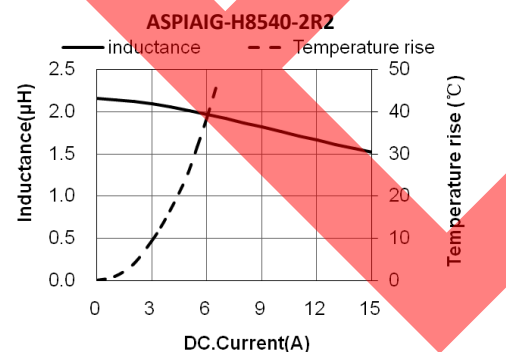
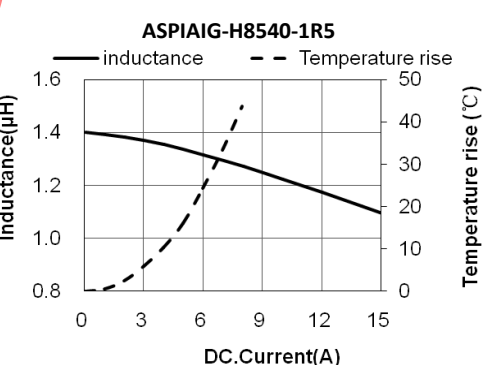
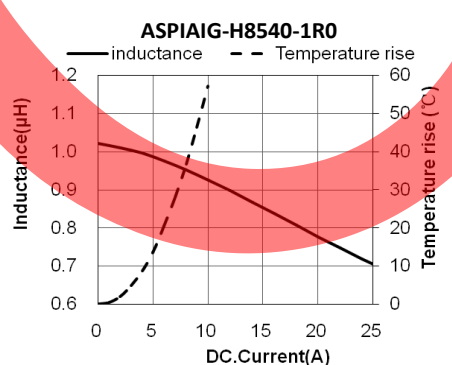
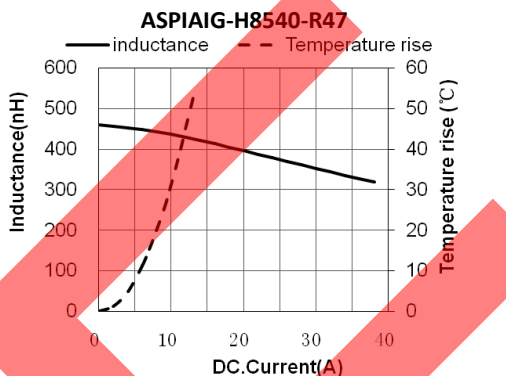
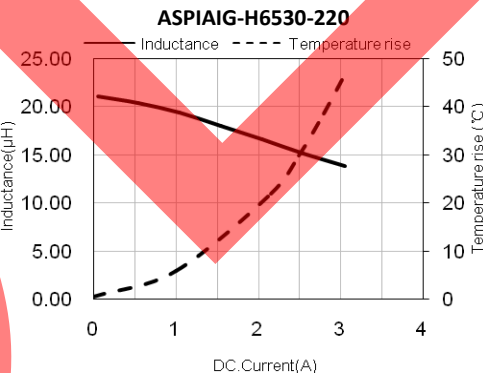
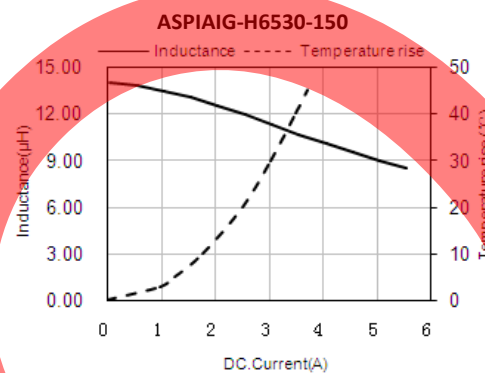
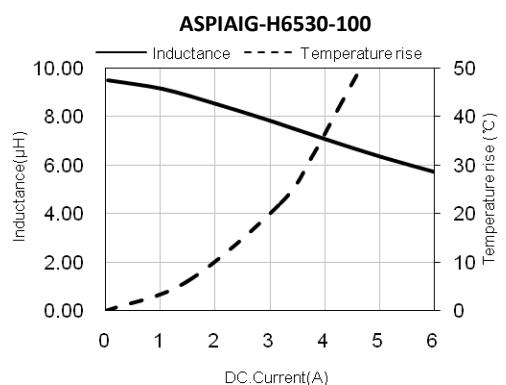
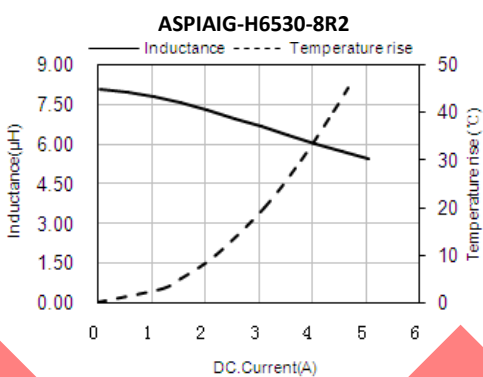
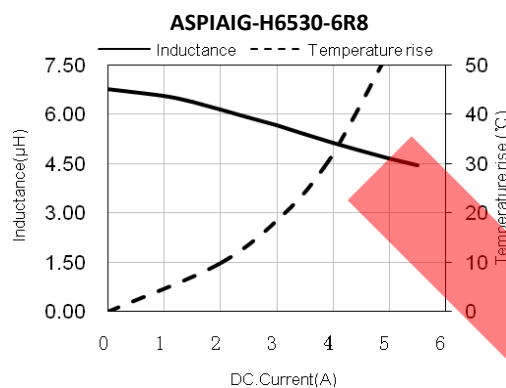
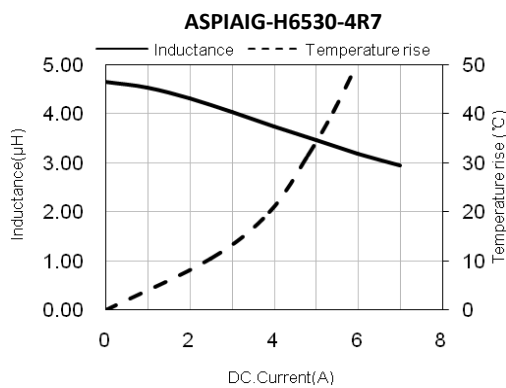
ASPIAIG-H6530: 7.1 x 6.5 x 3.0 mm
ASPIAIG-H8540: 8.8 x 8.5 x 4.0 mm



RoHS/RoHS II Compliant

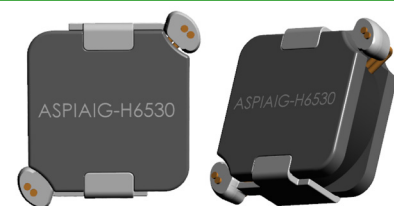
MSL = 1

ELECTRICAL CHARACTERISTICS



COMPACT SHIELDED SMD POWER INDUCTOR FOR AUTOMOTIVE

ASPIAIG-HXXXX SERIES



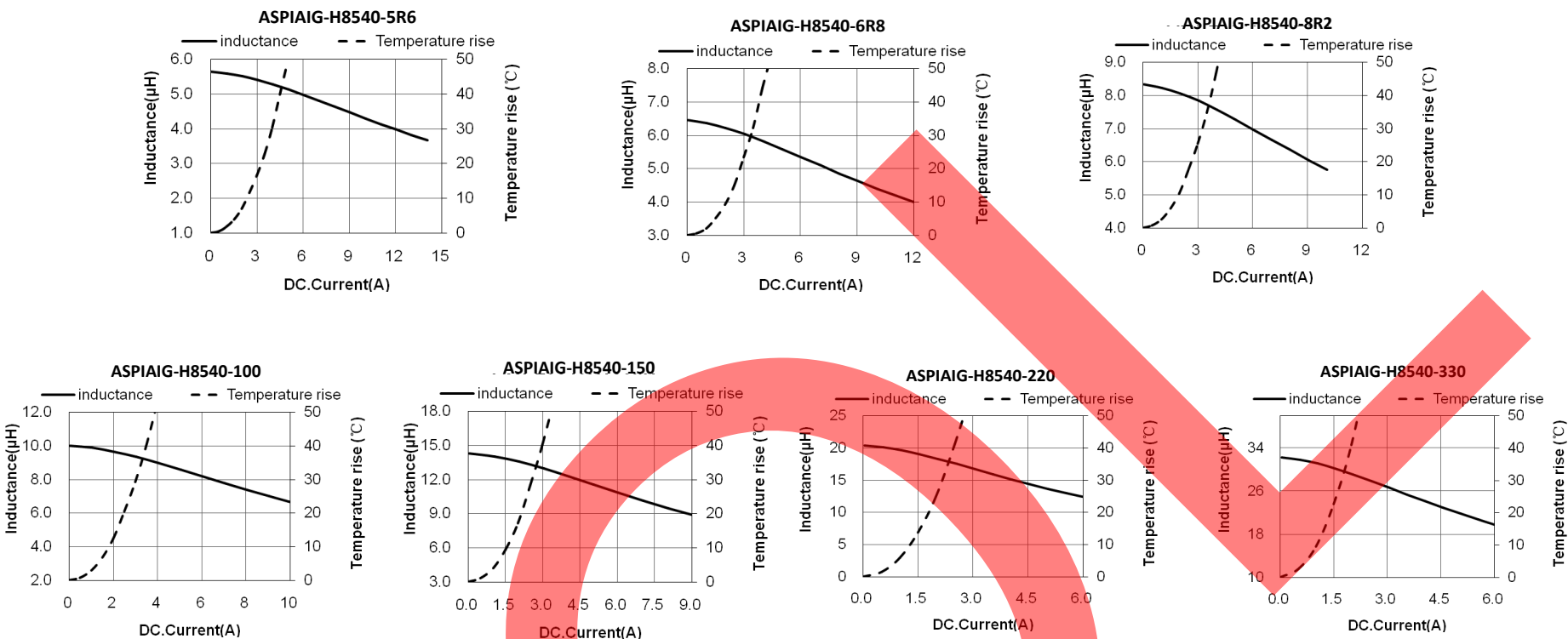
ASPIAIG-H6530: 7.1 x 6.5 x 3.0 mm
ASPIAIG-H8540: 8.8 x 8.5 x 4.0 mm



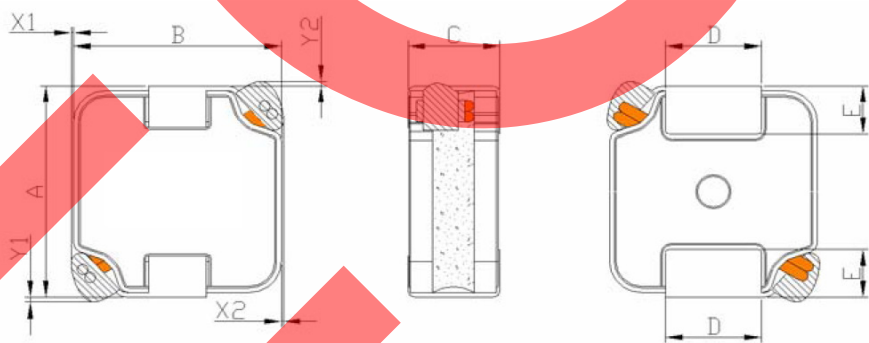
RoHS/RoHS II Compliant

MSL = 1

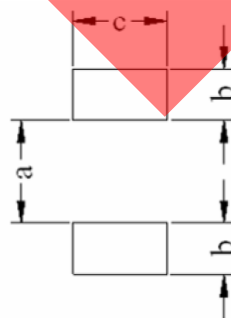
ELECTRICAL CHARACTERISTICS



MECHANICAL DIMENSIONS



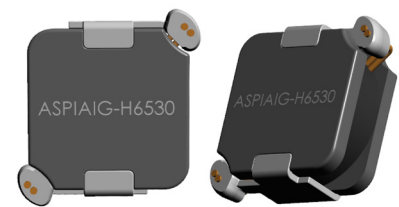
SERIES	A	B	C	D	E	X1	X2	Y1	Y2
ASPIAIG-H6530	7.1 ± 0.3	6.5 ± 0.3	3.0 ± 0.2	3.2 ± 0.3	1.55 ± 0.3			0.5 MAX	
ASPIAIG-H8540	8.5 ± 0.3	8.2 ± 0.3	4.0 MAX	3.9 ± 0.3	1.9 ± 0.3			0.5 MAX	



SERIES#	a Typ	b Typ	c Typ
ASPIAIG-H6530	3.7	1.85	3.4
ASPIAIG-H8540	3.8	2.4	4.1

COMPACT SHIELDED SMD POWER INDUCTOR FOR AUTOMOTIVE

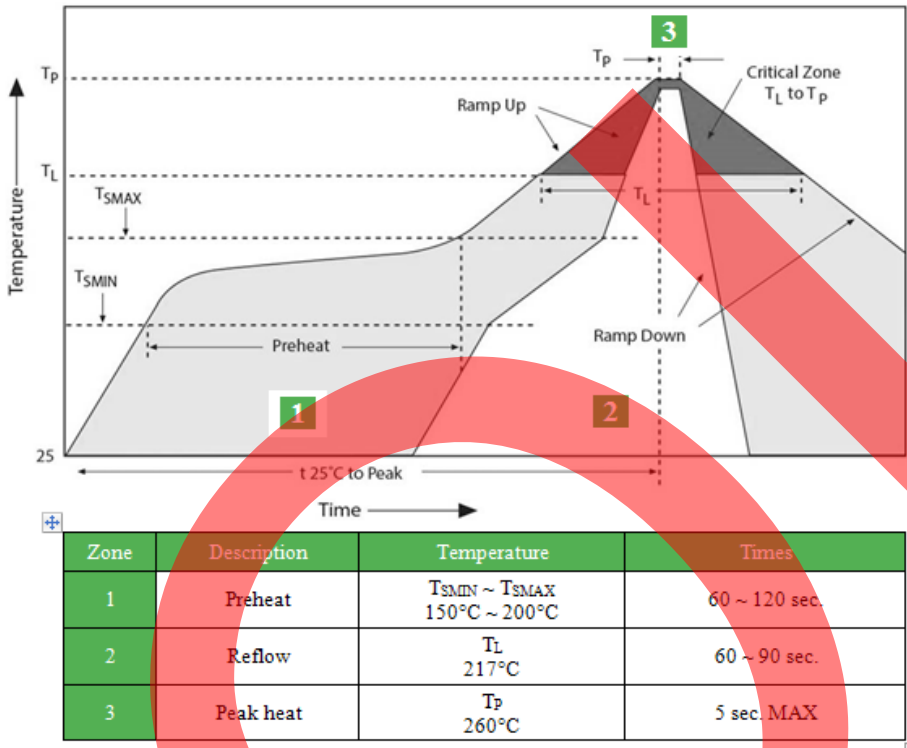
ASPIAIG-HXXXX SERIES



ASPIAIG-H6530: 7.1 x 6.5 x 3.0 mm
ASPIAIG-H8540: 8.8 x 8.5 x 4.0 mm

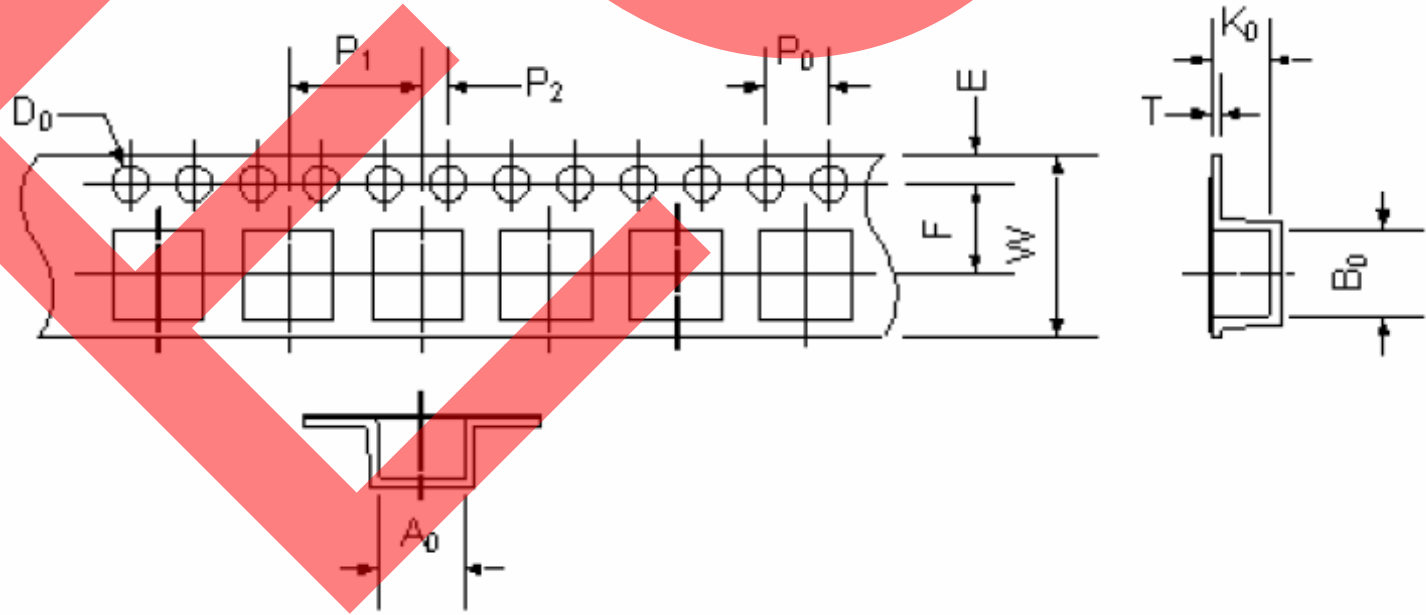
 **RoHS/RoHS II Compliant**
MSL = 1

REFLOW PROFILE



PACKAGING

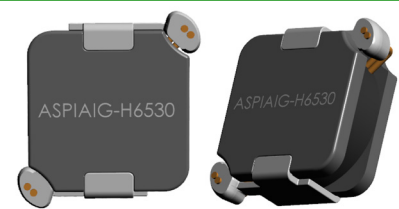
TAPE AND REEL: 1000 PCS/REEL



SERIES#	W	E	F	P0	P1	P2	D0	A0	B0	T	K0
ASPIAIG-H6530	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	7.6±0.1	7.4±0.1	0.4±0.03	3.6±0.1
ASPIAIG-H8540	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	8.9±0.1	8.6±0.1	0.5±0.05	4.2±0.1

COMPACT SHIELDED SMD POWER INDUCTOR FOR AUTOMOTIVE

ASPIAIG-HXXXX SERIES

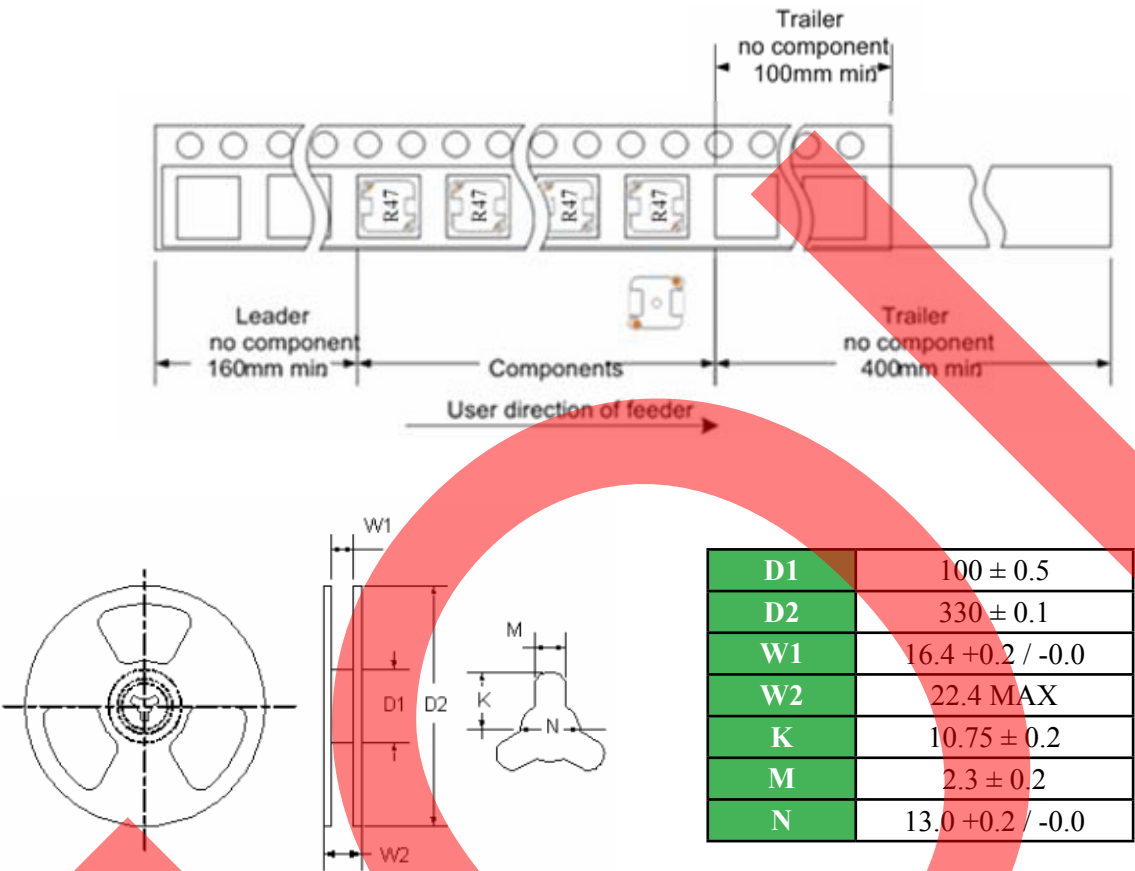


ASPIAIG-H6530: 7.1 x 6.5 x 3.0 mm
ASPIAIG-H8540: 8.8 x 8.5 x 4.0 mm

PACKAGING: DIRECTION OF ROLLING

RoHS/RoHS II Compliant
MSL = 1

Tape and Reel: 1000 pcs/reel



NOTES

- 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.
- ABRACON will supply the parts in accordance with this specification unless we receive a written request to modify prior to an order placement.
- 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.
- When changing your production process, please notify ABRACON immediately.
- 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.
- All specifications and Marking will be subject to change without notice.