

ECN/PCN No.: M1149

For Manufacturer			
Product Description: Shielded SMD Power Inductor		Abracon Part Number / Part Series: ASPIAIG-H6530	
		<input checked="" type="checkbox"/> Series <input type="checkbox"/> Part Number	
Affected Revision: A	New Revision: B	Application	
		<input type="checkbox"/> Safety <input checked="" type="checkbox"/> 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		Abracon Part Number / Part Series: ASPIAIG-H8540	
		<input checked="" type="checkbox"/> Series <input type="checkbox"/> Part Number	
Affected Revision: A	New Revision: B	Application	
		<input type="checkbox"/> Safety <input checked="" type="checkbox"/> 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	

- 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

- Automotive navigation
- Transportation
- Lighting, LED ballasts
- Industrial Internet of Things (IIoT)
- Industrial applications
- Solar power
- DC/DC converters and switch mode power

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

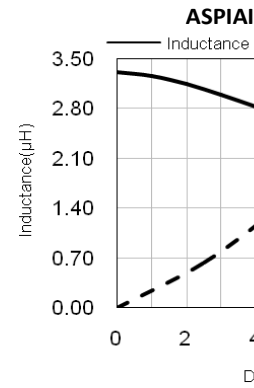
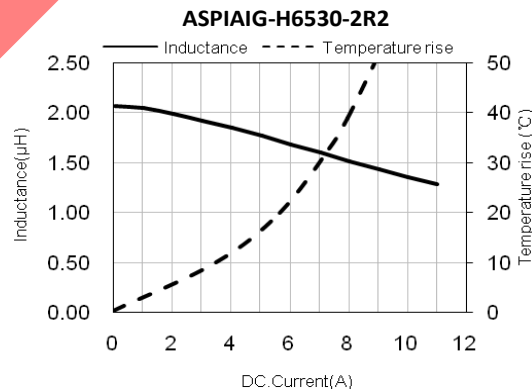
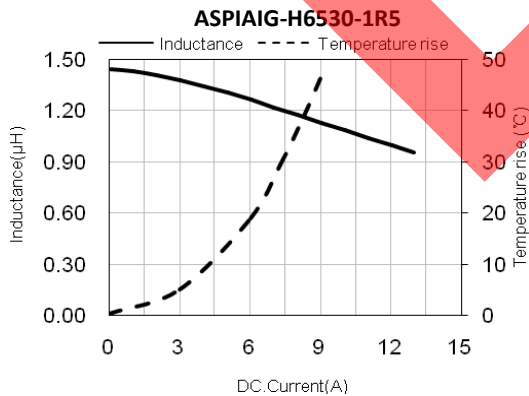
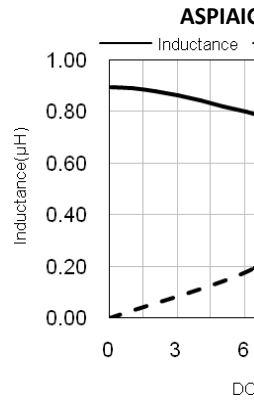
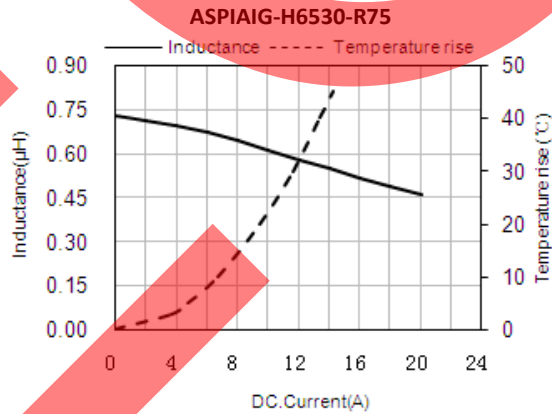
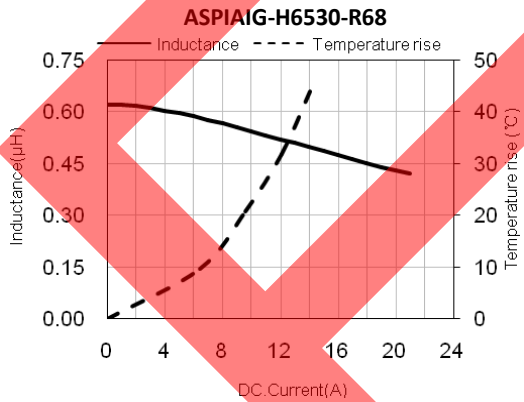
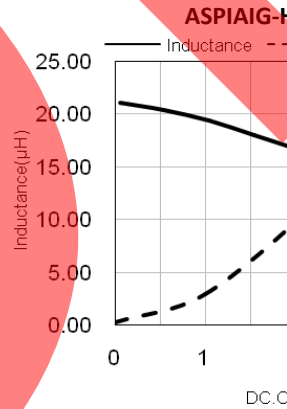
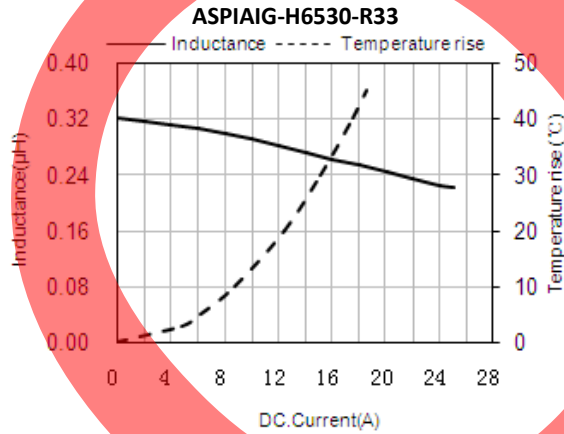
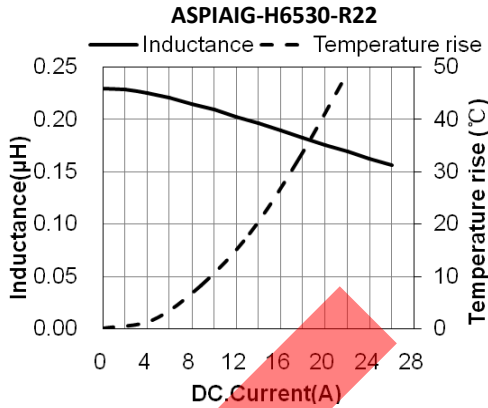
SERIES #
6530
8540

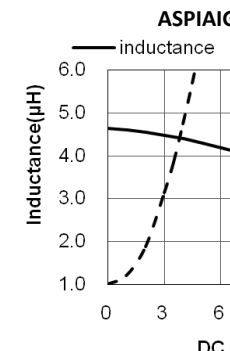
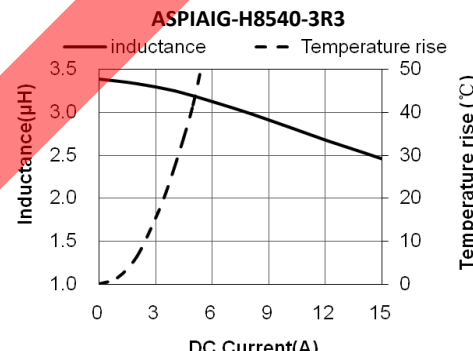
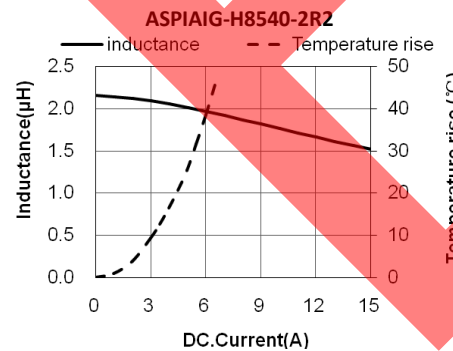
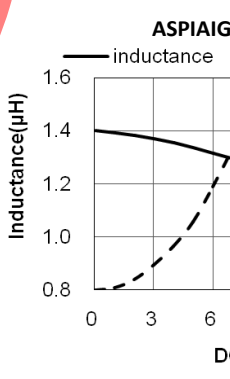
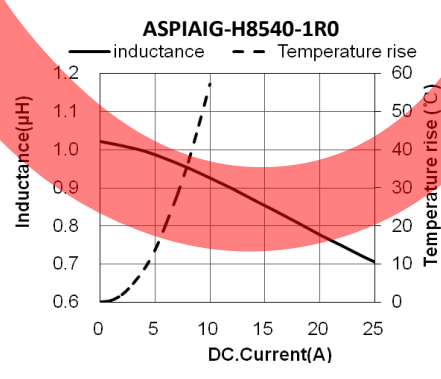
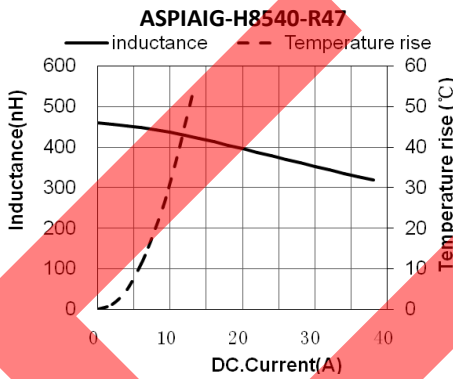
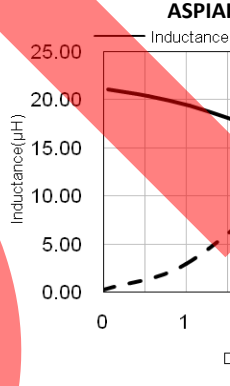
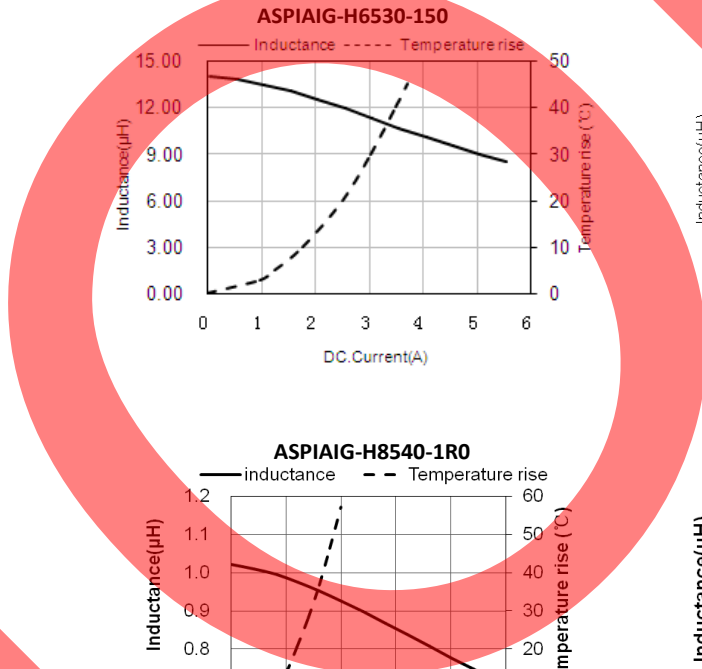
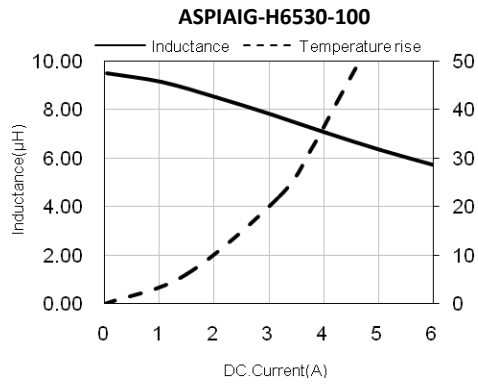
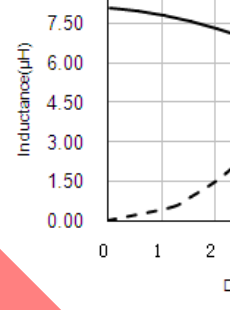
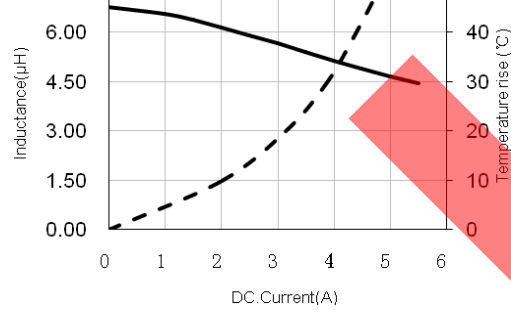
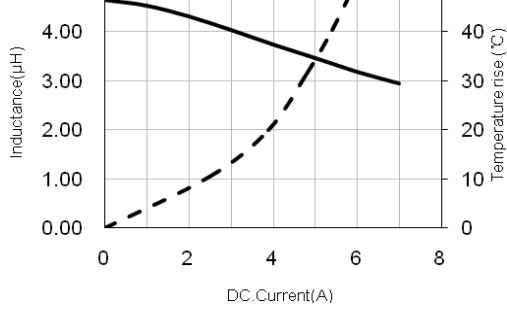
IMPEDENCE CODE
Please refer to Electrical Spec table

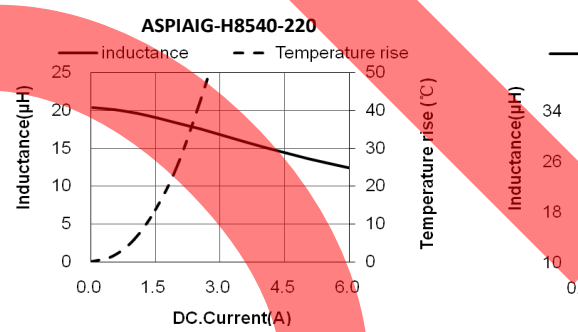
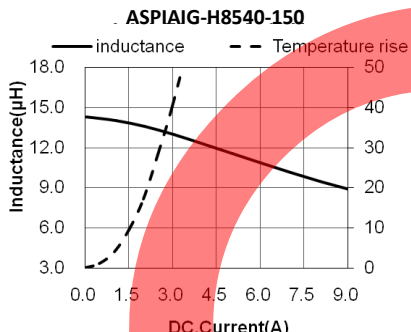
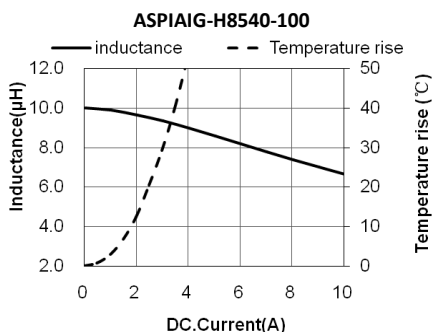
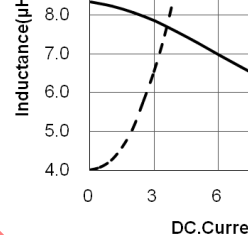
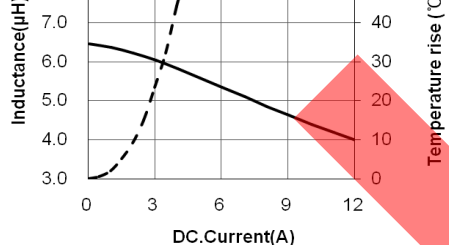
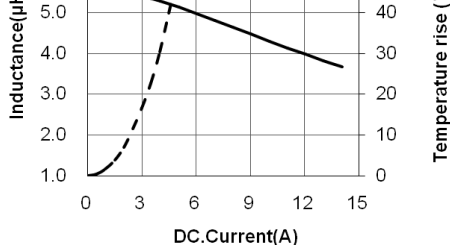
TOLERANCE
M: ±20%

PACK
T: Tape (1Kpc)

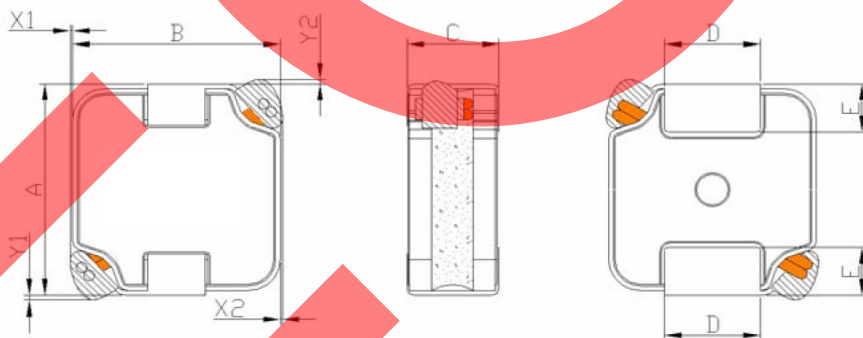
ELECTRICAL CHARACTERISTICS



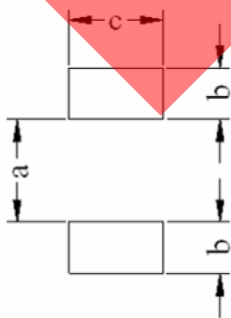




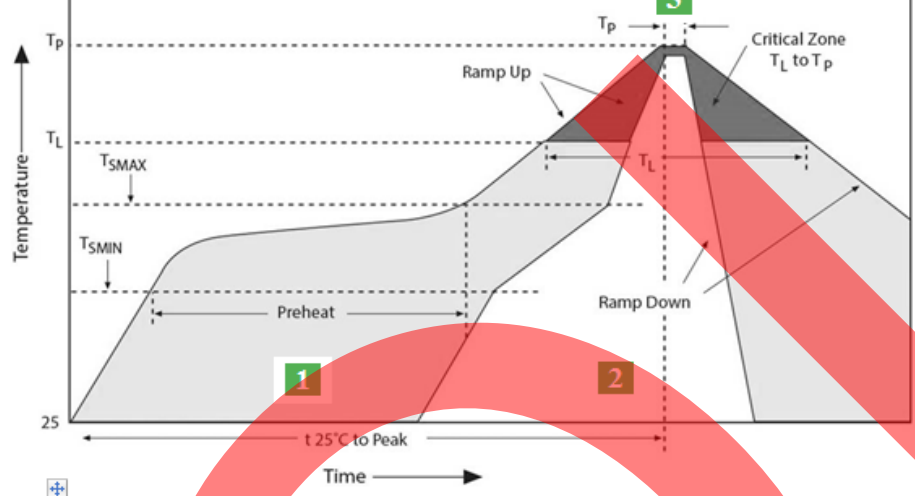
MECHANICAL DIMENSIONS



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 MA	
ASPIAIG-H8540	8.5 ± 0.3	8.2 ± 0.3	4.0 MAX	3.9 ± 0.3	1.9 ± 0.3			0.5 MA	



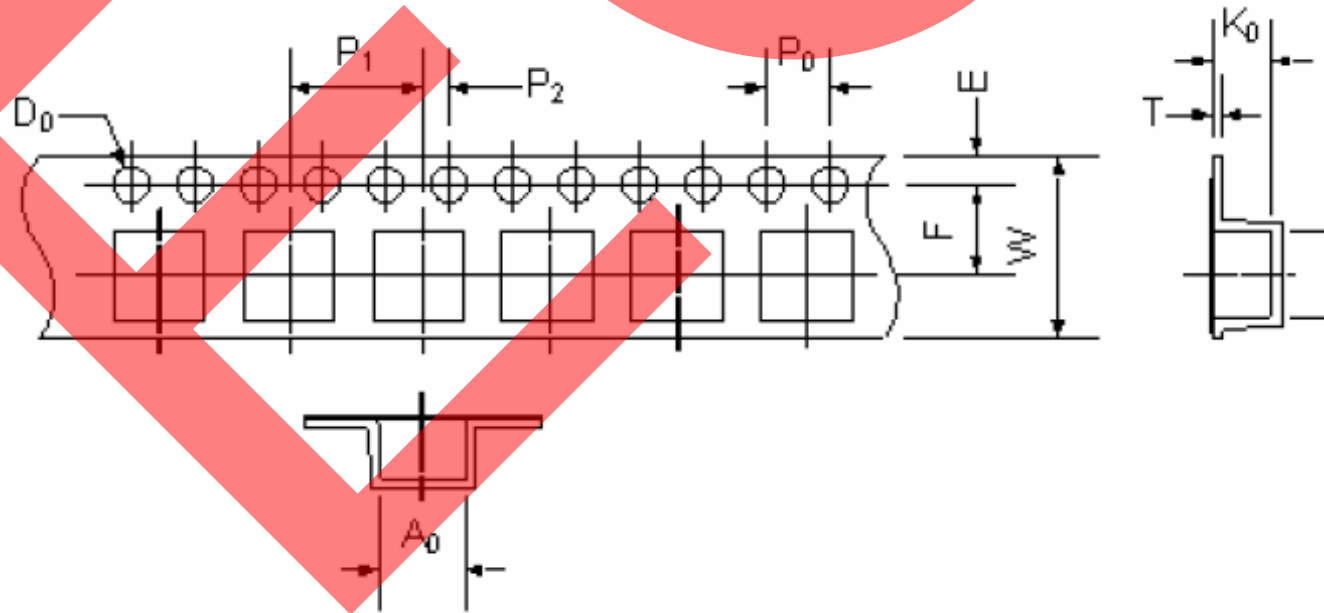
SERIES#	a Typ	b Typ	c Typ
ASPIAIG-H6530	3.7	1.85	3.4
ASPIAIG-H8540	3.8	2.4	4.1



Zone	Description	Temperature	Times
1	Preheat	T _S MIN ~ T _S MAX 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

PACKAGING

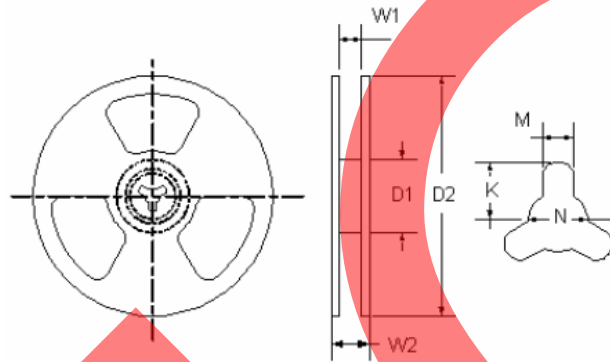
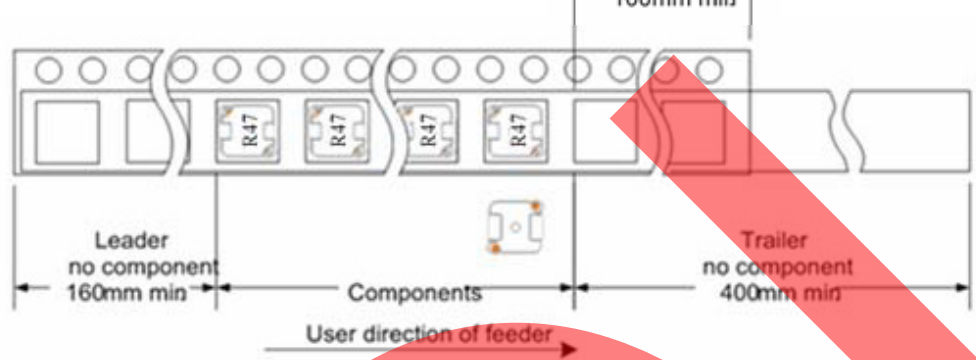
TAPE AND REEL: 1000 PCS/REEL



SERIES#	W	E	F	P0	P1	P2	D0	A0	B0
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
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



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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

NOTES

1. The parts are manufactured in accordance with this specification. If other conditions and specifications which are required by 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 part placement.
3. In no case shall ABRACON be liable for any product failure from in appropriate handling or operation of the item beyond that specified in 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 Consumer Applications. ABRACON's products are not specifically designed for Military, Aviation, Aerospace, or Medical applications or any application requiring high reliability where component failure could result in loss of life or property. For applications requiring high reliability and/or presenting an extreme operating environment, written authorization from ABRACON Corporation is required. Please contact ABRACON Corporation for more information.
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