ACTP-W Series INDEX

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Customized Item AEC-Q200 standard compliance

HF Halogen Free RoHS COMPLIANT

ACTP0754W SERIES

High reliability inductance

Enable 3D View

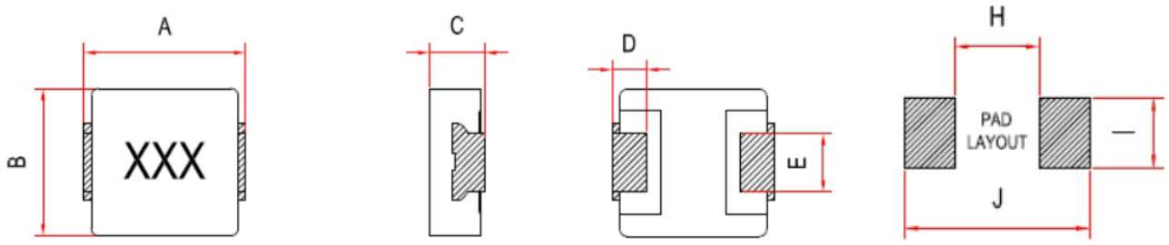
Applications:

· Automotive reliability comply with **AEC-Q200** grade 0

· Automotive applications

This is the product 3D document.
Please click "Trust the document" to preview.

Shape and Dimensions (Dimensions are in mm):



Item	A	B	C	D	E	H	I	J
ACTP0754W	7.7±0.35	7.2±0.3	5.2±0.2	2.0±0.3	3.0±0.3	2.55	3.50	9.20

Features :

· High performance (Isat) realized by metal dust core.

· Low loss realized with low DCR

· Compliance with RoHS and Halogen Free

· AEC-Q200 qualified

Characteristics:

· Saturation Current (Isat) : The current causes L_0 dropped approximately 30% typically.

· Temperature Rise Current(Irms) : The current will causes the coil temperature rose approximately △T=40℃

· Operating Temperature : -55℃ to 155℃.

Handling and precautions :

· Please contact us before cleaning this product.

Product Identification :

ACTP 0754 W – 1R0 M

(1) (2) (3) (4) (5)

(1) Product Symbol

(2) Dimensions Code

(3) Product Series（W）

(4) Inductance（1R0：1.0uH）

(5) Inductance tolerance（M: ± 20%）

Measurement equipment :

· L: Agilent E4980 Precision LCR Meter
(Upgraded version of Agilent HP4284A)

· DCR: Chroma16502 Milliohm Meter

● ACTP0754W Series

Part No.	Inductance L0 (uH)	Tolerance (±%)	DCR(mΩ)	Isat(A)		Irms(A)	
			Max.	Max.	Typ.	Max.	Typ.
ACTP0754W-1R5M	1.5	20	7.3	14.0	16.3	10.3	11.4
ACTP0754W-2R2M	2.2	20	11.4	12.7	14.8	8.7	9.7
ACTP0754W-3R3M	3.3	20	15.4	11.6	13.5	7.2	8.0
ACTP0754W-4R7M	4.7	20	20.9	11.2	13.1	6.3	7.0
ACTP0754W-5R6M	5.6	20	24.0	9.1	10.6	5.9	6.5
ACTP0754W-6R8M	6.8	20	26.6	8.7	10.2	5.5	6.1
ACTP0754W-8R2M	8.2	20	31.9	7.7	9.0	5.0	5.6
ACTP0754W-100M	10.0	20	38.0	6.9	8.0	4.7	5.2
ACTP0754W-150M	15.0	20	66.0	5.9 Note 3	6.9 Note 3	3.4	3.8
ACTP0754W-220M	22.0	20	93.5	5.4	6.3	3.0	3.3
ACTP0754W-330M	33.0	20	127.6	4.2	4.9	2.8	3.2
ACTP0754W-470M	47.0	20	171.6	3.5	4.1	2.2	2.4
ACTP0754W-560M	56.0	20	209.3	2.8	3.3	2.0	2.2
ACTP0754W-680M	68.0	20	255.0	2.4	2.8	1.8	2.0
ACTP0754W-101M	100.0	20	348.0	2.0	2.4	1.6	1.8

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: I sat (Typ): DC current (A) that will cause L0 to drop approximately 30%.

I sat (Max): DC current (A) that will cause L0 to drop 30% Max.

Note 3: I sat (Typ): DC current (A) that will cause L0 to drop approximately 35%.

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Note 4: I rms (Typ): DC current (A) that will cause an approximate △T of 40℃.

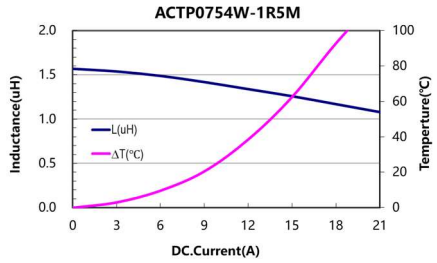
I rms (Max): DC current (A) that will cause △T of 40℃ max.

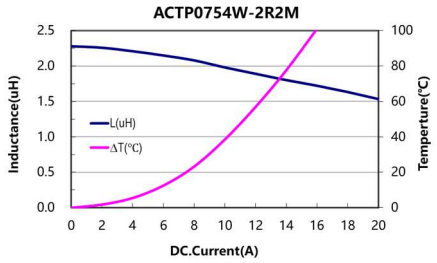
Note 5: Operating Temperature range includes self-temperature rise.

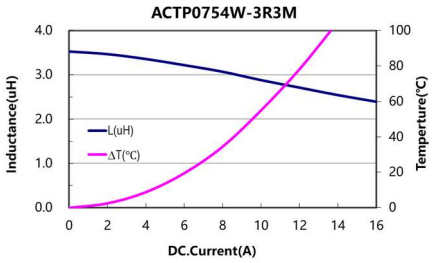
Note 6: The part temperature (ambient + temp rise) should not exceed 155℃ under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.

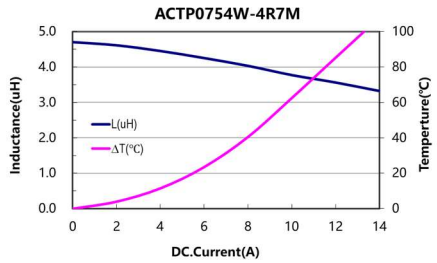
Note 7: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

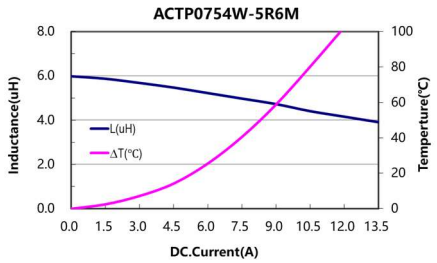
Typical performance curves :

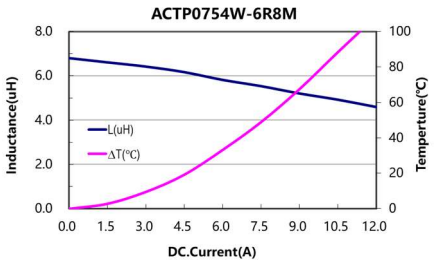


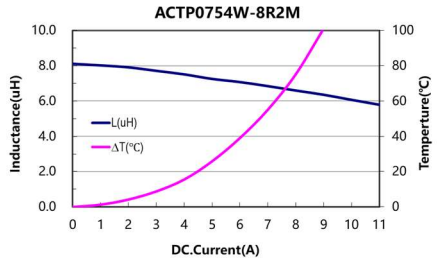


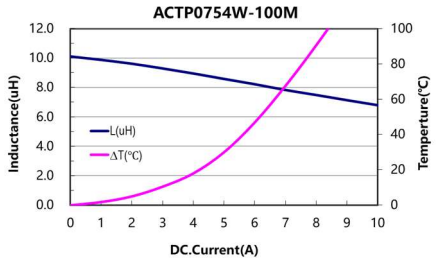


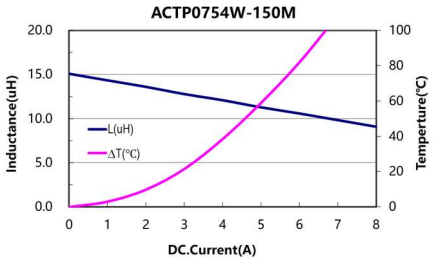


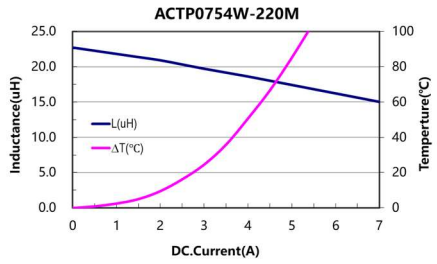


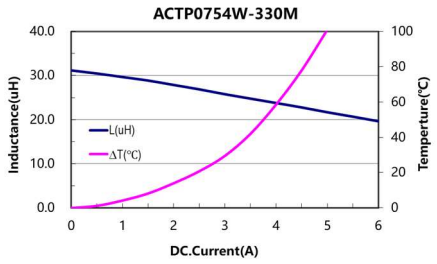


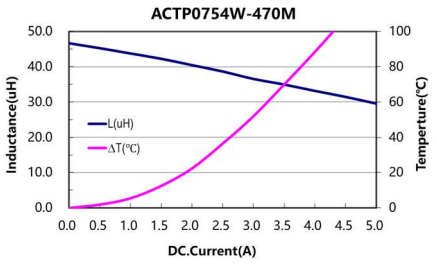


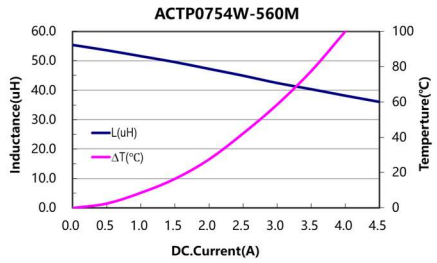


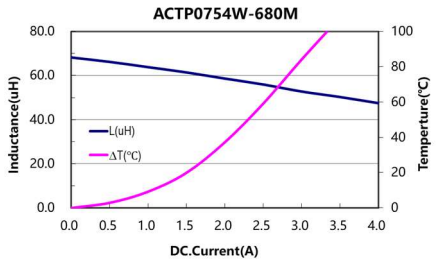


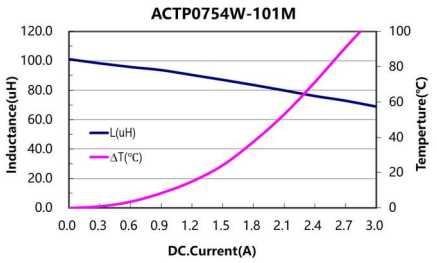








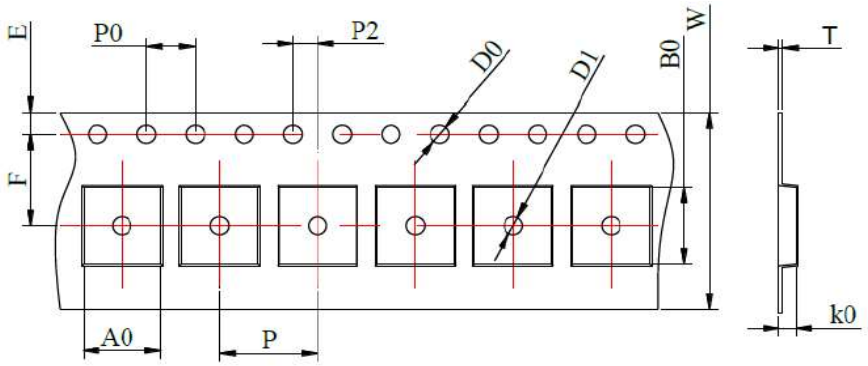




* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

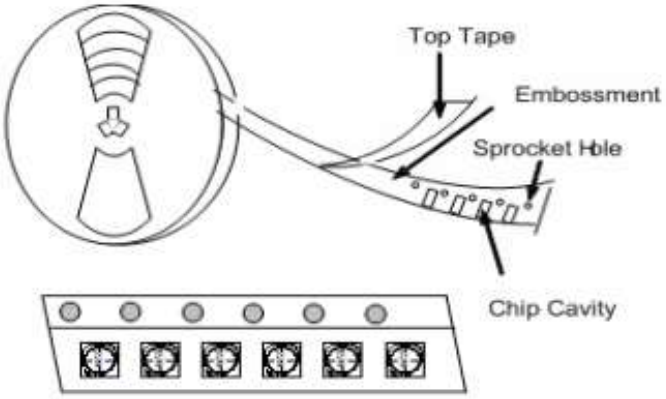
Packaging Information

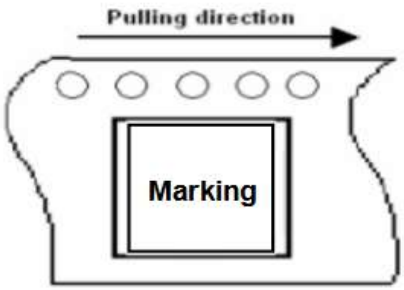
(1) Tape Packaging Dimensions（Unit：mm）



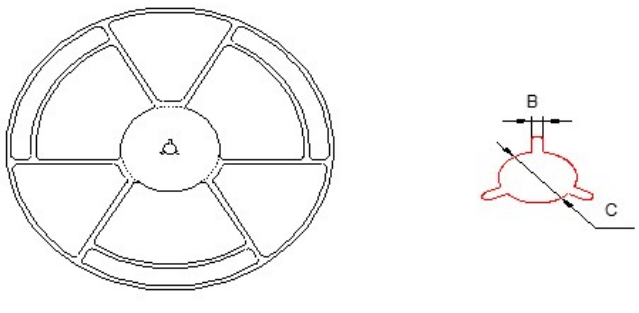
Taping Drawings (UNIT: mm)

Tape dimensions (mm)												
P/N	W	P	P0	P2	D0	D1	T	A0	B0	K0	E	F
ACTP0754W	16±0.3	12±0.1	4±0.1	2±0.1	1.55±0.1	1.55±0.1	0.50±0.05	7.7±0.1	8.2±0.1	5.7±0.1	1.75±0.1	7.5±0.1





(2) Reel Dimensions（Unit：mm）

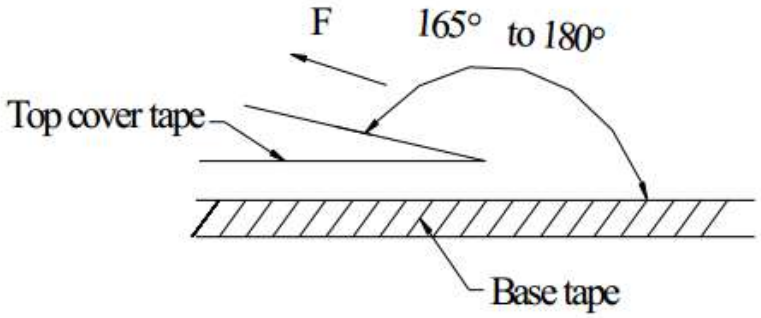


Reel dimensions (mm)						PCS / REEL
P/N	A	W	N	B	C	
ACTP0754W	330+2.0	16.8±0.2	97±0.5	2.2+0.5	13.2±0.2	500

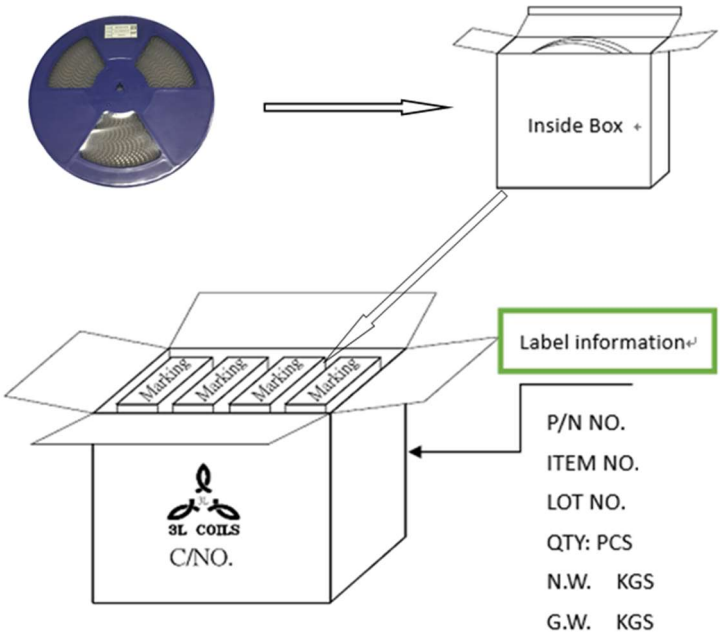
(3) Peel force of top cover tape

The peel speed shall be about 300mm/minute

The peel force of top cover tape shall be between 0.1 to 1.3 N



(4) Package Specifications



The Outside Carton Package quantity		
P/N	**PCS / Inside Box**	**PCS / Outside Carton**
ACTP0754W	**1000**	**4000**

Storage Conditions:

a) Temperature and humidity conditions: <35℃ and 35-65%.

b) Recommendation: inductors should be used within 6 months from the time or delivery

c) Packaging material should be kept away from where chlorine or sulfur exists.

Customized Item AEC-Q200 standard compliance

HF Halogen Free RoHS COMPLIANT

ACTP1054W SERIES

High reliability inductance

Enable 3D View

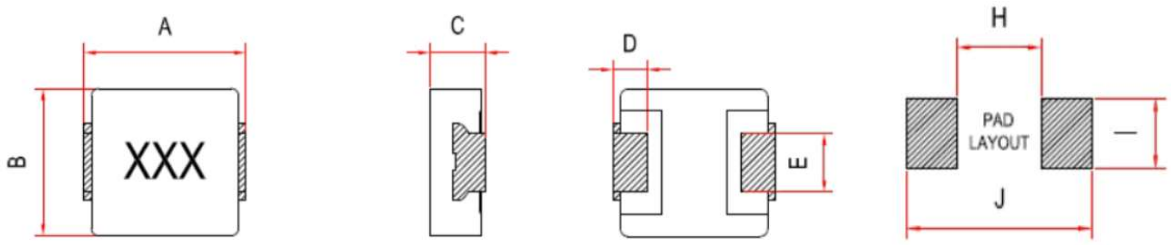
Applications:

· Automotive reliability comply with **AEC-Q200** grade 0

· Automotive applications

This is the product 3D document.
Please click "Trust the document" to preview.

Shape and Dimensions (Dimensions are in mm):



Item	A	B	C	D	E	H	I	J
ACTP1054W	11.0±0.5	10.0±0.3	5.2±0.2	2.2±0.5	4.5±0.3	4.90	5.00	12.88

Features :

· High performance (Isat) realized by metal dust core.

· Low loss realized with low DCR

· Compliance with RoHS and Halogen Free

· AEC-Q200 qualified

Characteristics:

· Saturation Current (Isat) : The current causes L_0 dropped approximately 30% typically.

· Temperature Rise Current(Irms) : The current will causes the coil temperature rose approximately △T=40℃

· Operating Temperature : -55℃ to 155℃.

Handling and precautions :

· Please contact us before cleaning this product.

Product Identification :

ACTP 1054 W – 1R0 M

(1) (2) (3) (4) (5)

(1) Product Symbol

(2) Dimensions Code

(3) Product Series（W）

(4) Inductance（1R0：1.0uH）

(5) Inductance tolerance（M: ± 20%）

Measurement equipment :

· L: Agilent E4980 Precision LCR Meter
(Upgraded version of Agilent HP4284A)

· DCR: Chroma16502 Milliohm Meter

● ACTP1054W Series

Part No.	Inductance L0 (uH)	Tolerance (±%)	DCR(mΩ)	Isat(A)		Irms(A)	
			Max.	Max.	Typ.	Max.	Typ.
ACTP1054W-R68M	0.68	20	2.22	39.4 Note 3	46.0 Note 3	28.8	32.0
ACTP1054W-1R0M	1.0	20	2.76	31.7	37.0	27.0	30.0
ACTP1054W-1R5M	1.5	20	4.2	23.0	26.8	22.3	24.8
ACTP1054W-2R2M	2.2	20	4.9	21.4	25.0	20.7	23.0
ACTP1054W-3R3M	3.3	20	7.4	16.3	19.0	16.8	18.7
ACTP1054W-4R7M	4.7	20	10.0	13.5	15.7	13.0	14.5
ACTP1054W-6R8M	6.8	20	14.0	11.4	13.3	10.8	12.0
ACTP1054W-100M	10.0	20	24.2	10.9	12.7	7.8	8.7
ACTP1054W-150M	15.0	20	31.3	7.9	9.2	6.8	7.6
ACTP1054W-220M	22.0	20	50.0	7.5	8.8	5.4	6.0
ACTP1054W-330M	33.0	20	75.3	6.5	7.6	4.3	4.8
ACTP1054W-470M	47.0	20	103.0	4.2	4.9	3.6	4.1
ACTP1054W-680M	68.0	20	152.0	3.6	4.2	3.0	3.3
ACTP1054W-101M	100.0	20	234.0	3.0	3.5	2.5	2.8

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: I sat (Typ): DC current (A) that will cause L0 to drop approximately 30%.

I sat (Max): DC current (A) that will cause L0 to drop 30% Max.

Note 3: I sat (Typ): DC current (A) that will cause L0 to drop approximately 35%.

I sat (Max): DC current (A) that will cause L0 to drop 35% Max.

Note 4: I rms (Typ): DC current (A) that will cause an approximate △T of 40℃.

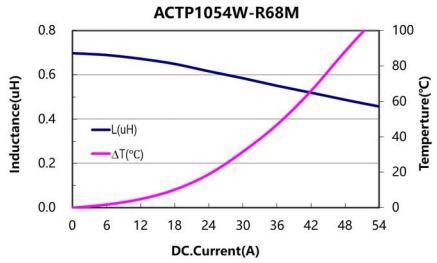
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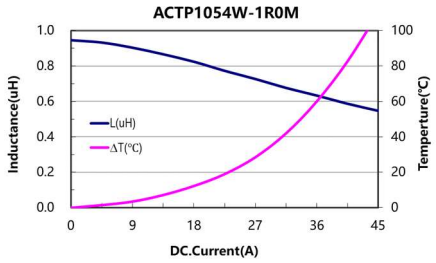
Note 5: Operating Temperature range includes self-temperature rise.

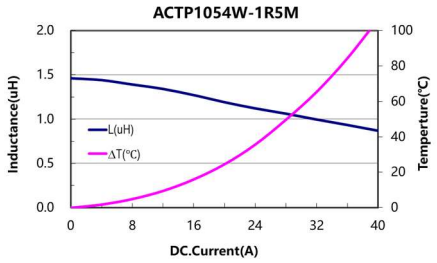
Note 6: The part temperature (ambient + temp rise) should not exceed 155℃ under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.

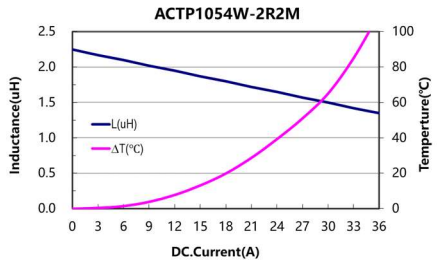
Note 7: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

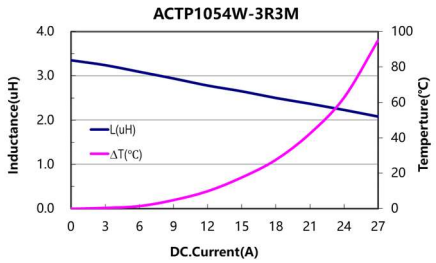
Typical performance curves :

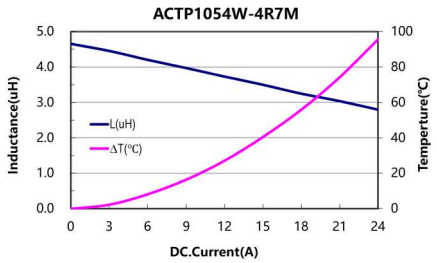


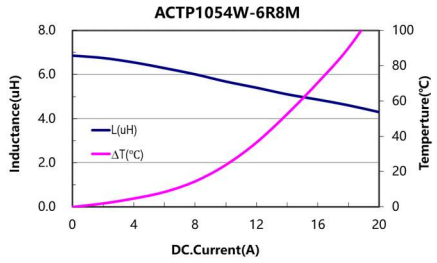


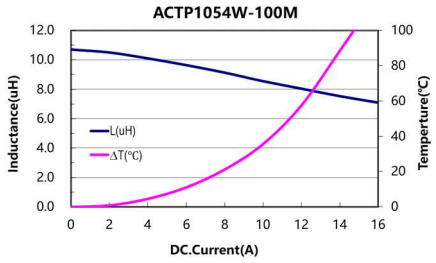


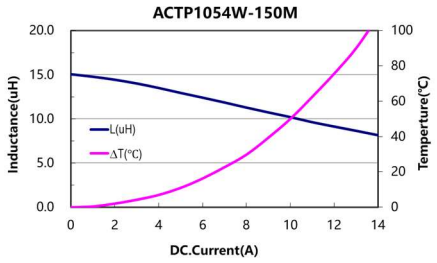


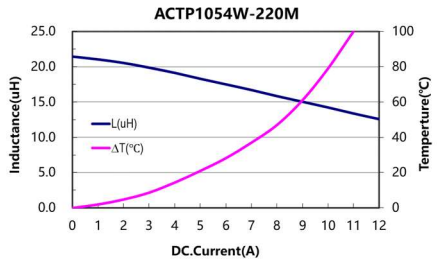


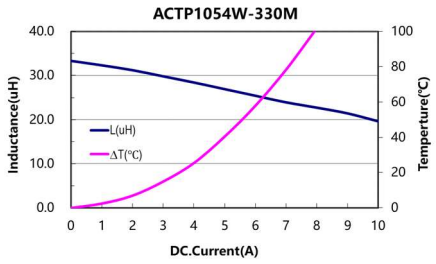


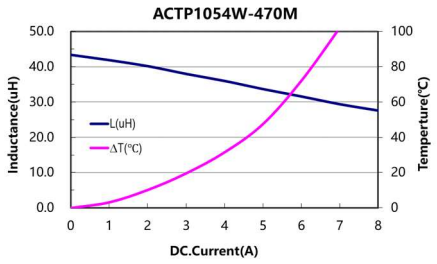


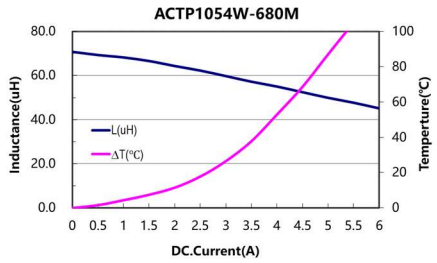


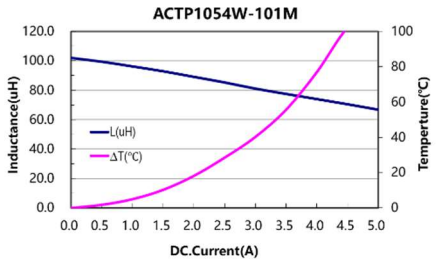








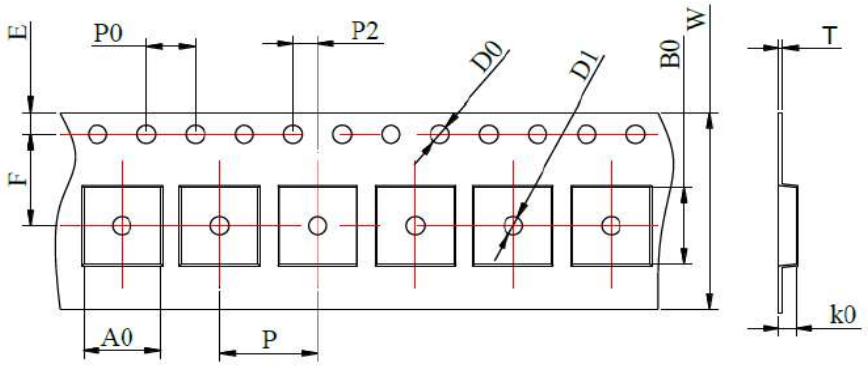




* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.

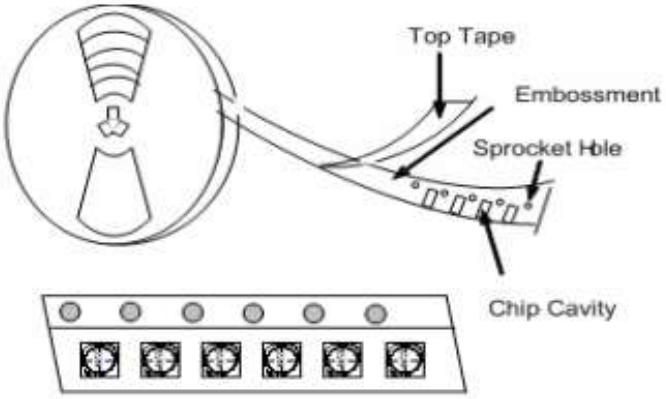
Packaging Information

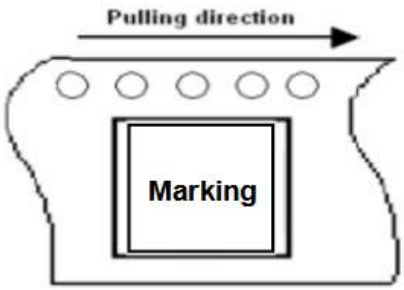
(1) Tape Packaging Dimensions（Unit：mm）



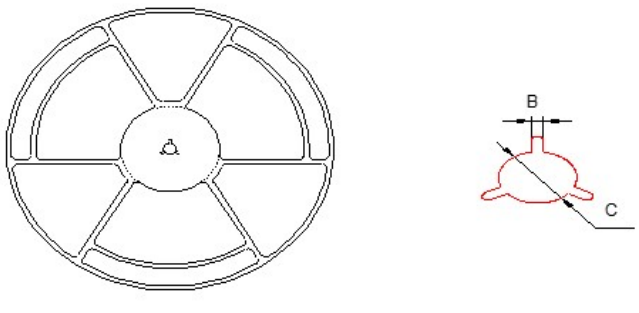
Taping Drawings (UNIT: mm)

Tape dimensions (mm)												
P/N	W	P	P0	P2	D0	D1	T	A0	B0	K0	E	F
ACTP1054W	24±0.3	16±0.1	4±0.1	2±0.05	1.50±0.1	1.50±0.1	0.45±0.05	10.4±0.1	11.6±0.1	5.8±0.1	1.75±0.1	11..5±0.1





(2) Reel Dimensions（Unit：mm）

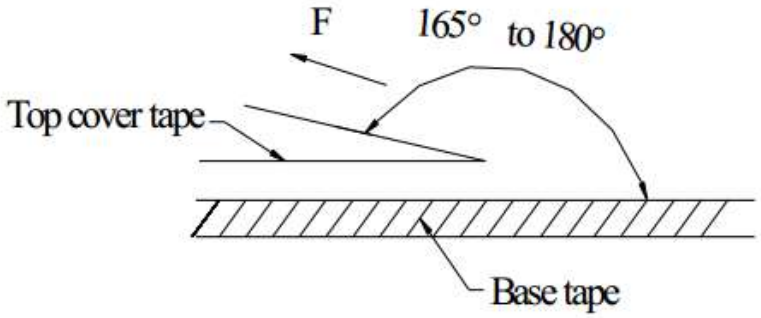


Reel dimensions (mm)						PCS / REEL
P/N	A	W	N	B	C	
ACTP1054W	330+2.0	24±0.5	97±0.5	2.2+0.5	13.0±0.2	500

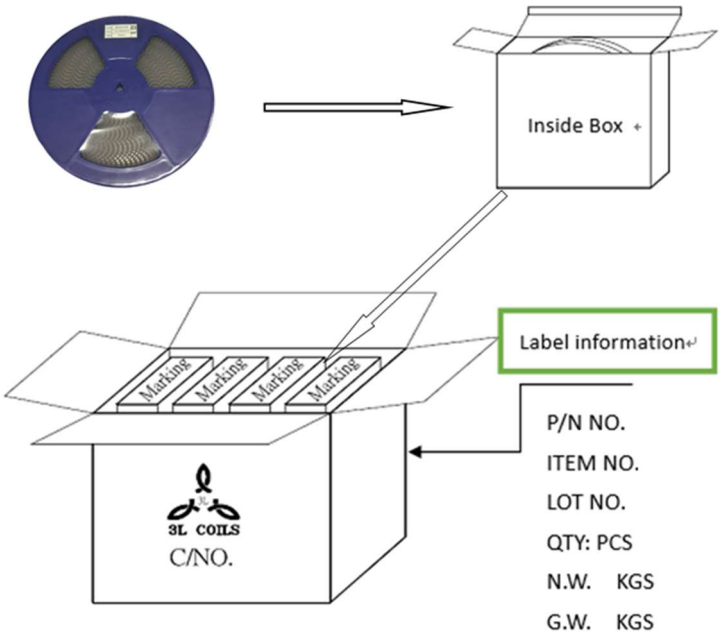
(3) Peel force of top cover tape

The peel speed shall be about 300mm/minute

The peel force of top cover tape shall be between 0.1 to 1.3 N



(4) Package Specifications



The Outside Carton Package quantity		
P/N	**PCS / Inside Box**	**PCS / Outside Carton**
ACTP1054W	**1000**	**4000**

Storage Conditions:

a) Temperature and humidity conditions: <35℃ and 35-65%.

b) Recommendation: inductors should be used within 6 months from the time or delivery

c) Packaging material should be kept away from where chlorine or sulfur exists.