



车载数字功放电感

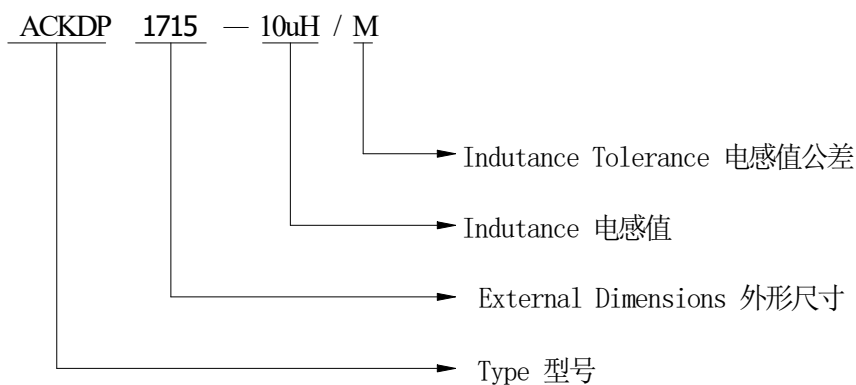
FEATURES 特性

- 1.Assemblage design, sturdy structure.
2. Magnetic shielded structure with low magnetic flux.
- 3.leakage low DC resistance,support high-currents.

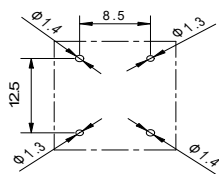
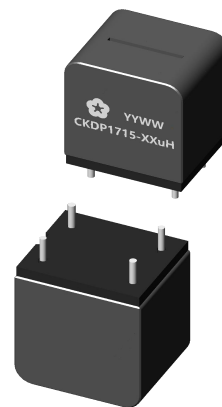
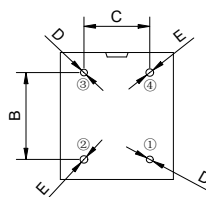
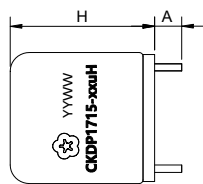
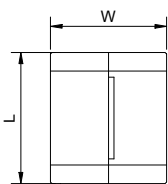
APPLICATIONS 用途

- 1.Support high-output of AV amplifiers and car amplifiers and so on.
- 2.Best suited as LPF inductor for Digital Amplifier(Class-D Amp).

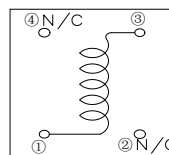
PART NUMBERING SYSTEM 品名系统



ACKDP1715 外形尺寸 (Unit:mm)



参考焊盘尺寸

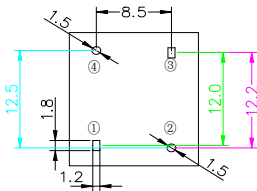
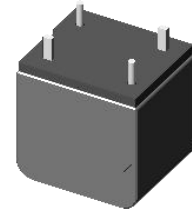
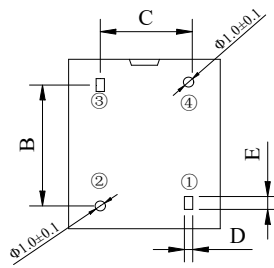
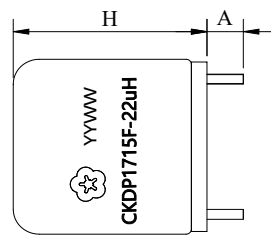
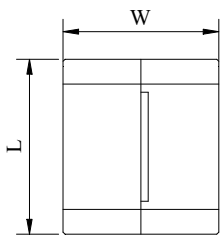


原理图

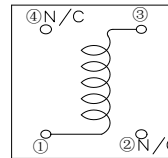
TYPE(型号)	L	W	H	A	B	C	D	E
ACKDP1715	17.5±0.5	15.0±0.5	19.3Max	3.5±0.5	12.5±0.5	8.5±0.5	0.9±0.1	1.0±0.1



ACKDP1715F 外形尺寸 (Unit:mm)



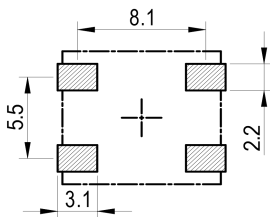
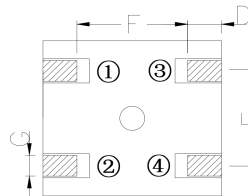
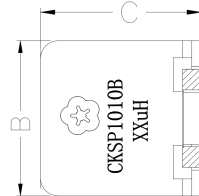
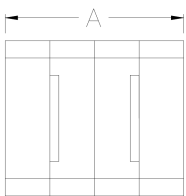
参考焊盘尺寸



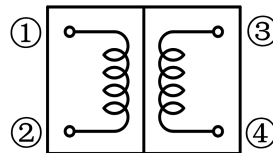
原理图

TYPE(型号)	L	W	H	A	B	C	D	E
ACKDP1715F	17.5±0.5	15.0±0.5	19.3Max	3.5±0.5	12.2±0.5	8.5±0.5	0.8±0.15	1.3±0.15

ACKSP1010S 外形尺寸 (Unit:mm)



参考焊盘尺寸



原理图



TYPE(型号)	A	B	C	D	E	F	G
ACKSP1010S	10.0±0.5	9.0±0.5	10.0Max	1.9±0.5	5.5±0.4	6.2±1.0	1.2±0.2



Electrical Properties

ACKDP1715 Series

Part Number	Inductance	DC Resistance		Self-resonant Frequency	Saturation Current (Isat)	Rated Current (Irms)
Units	μH	mΩ		MHz	A	A
Tol	±20%	Typ	Max	Typ	Typ	Typ
ACKDP1715-10uH/M	10.00	10.0	12.0	27.0	26.0	9.1
ACKDP1715-12uH/M	12.00	10.0	12.0	22.5	25.0	9.1
ACKDP1715-15uH/M	15.00	10.0	12.0	21.0	18.0	9.1
ACKDP1715-18uH/M	18.00	10.0	12.0	19.0	16.0	9.1
ACKDP1715-22uH/M	22.00	10.0	12.0	15.0	18.0	9.1
ACKDP1715-33uH/M	33.00	10.0	12.0	13.0	8.0	9.1

Note:

※1: All test data is reference to 25°C ambient.

※2: Test Condition: 1kHz, 1Vrms

※3: ISaturation current: the actual value of DC current when the inductance decrease 25% of its initial value.

※4: Temperature rise current: the actual value of DC current when the temperature rise is ΔT40°C(Ta=25°C).

※5: Special remind: Circuit design, component placement, PCB size and thickness, cooling system and etc.
all will affect the product temperature. Please verify the product temperature in the final application

Electrical Properties

ACKDP1715F Series

Part Number	Inductance	DC Resistance		Self-resonant Frequency	Saturation Current (Isat)	Rated Current (Irms)
Units	μH	mΩ		MHz	A	A
Tol	±20%	Typ	Max	Typ	Typ	Typ
ACKDP1715F-10uH/M	10.00	7.2	8.5	22.7	29.5	17.0
ACKDP1715F-12uH/M	12.00	7.2	8.5	18.5	25.0	17.0
ACKDP1715F-15uH/M	15.00	7.2	8.5	17.8	20.0	17.0
ACKDP1715F-18uH/M	18.00	7.2	8.5	17.0	17.0	17.0
ACKDP1715F-22uH/M	22.00	7.2	8.5	14.0	14.0	17.0
ACKDP1715F-33uH/M	33.00	7.2	8.5	10.6	9.0	17.0

Note:

※1: All test data is reference to 25°C ambient.

※2: Test Condition: 1kHz, 1Vrms

※3: ISaturation current: the actual value of DC current when the inductance decrease 25% of its initial value.

※4: Temperature rise current: the actual value of DC current when the temperature rise is ΔT40°C(Ta=25°C).

※5: Special remind: Circuit design, component placement, PCB size and thickness, cooling system and etc.
all will affect the product temperature. Please verify the product temperature in the final application



Electrical Properties

ACKSP1010S Series

Part Number	Inductance	DC Resistance		Self-resonant Frequency	Saturation Current (Isat)	Rated Current (Irms)
Units	μH	mΩ		MHz	A	A
Tol	±20%	Typ	Max	Typ	Typ	Typ
ACKSP1010S-4.7uH/M	4.70	15.0	18.0	40.0	10.0	5.2
ACKSP1010S-6.8uH/M	6.80	15.0	18.0	35.0	7.5	5.2
ACKSP1010S-8.2uH/M	8.20	15.0	18.0	31.0	6.4	5.2
ACKSP1010S-10uH/M	10.00	16.4	19.0	25.0	5.6	5.0
ACKSP1010S-12uH/M	12.00	22.0	25.0	26.0	5.2	4.3
ACKSP1010S-15uH/M	15.00	32.7	32.9	22.5	4.7	3.5
ACKSP1010S-22uH/M	22.00	43.0	50.0	18.0	3.5	2.5

Note:

※1: All test data is reference to 25°C ambient.

※2: Test Condition: 100kHz, 1Vrms

※3: ISaturation current: the actual value of DC current when the inductance decrease 25% of its initial value.

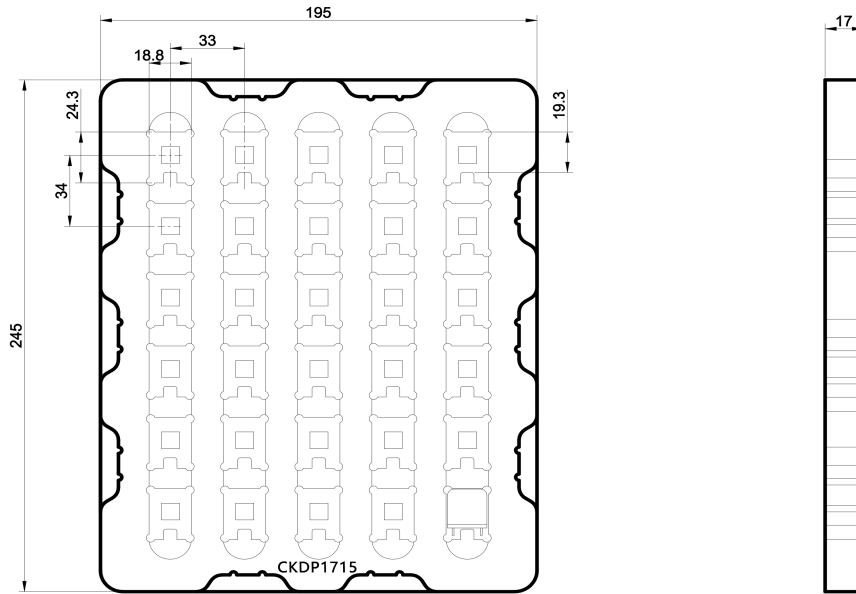
※4: Temperature rise current: the actual value of DC current when the temperature rise is ΔT40°C(Ta=25°C).

※5: Special remind: Circuit design, component placement, PCB size and thickness, cooling system and etc.
all will affect the product temperature. Please verify the product temperature in the final application.



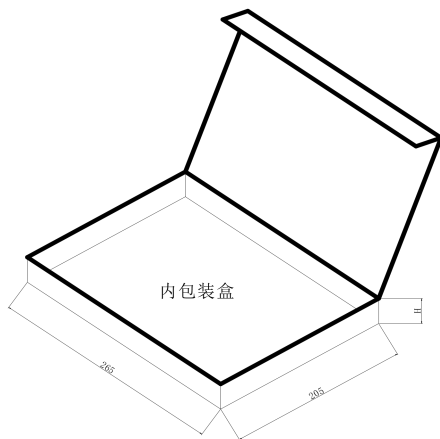
• ACKDP1715/F PACKAGING SPECIFICATION ACKDP1715/F包装规格

Plastic Tray Dimensions (mm)

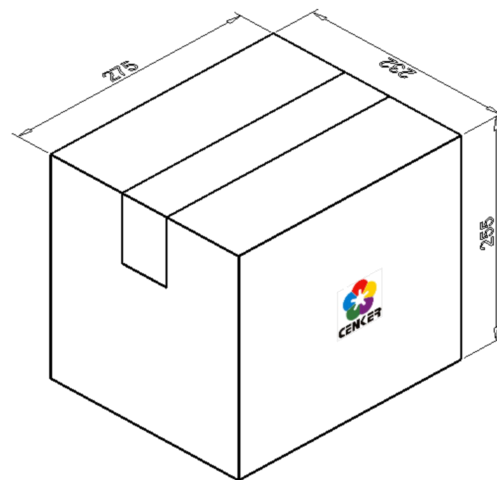


30pcs/ Tray

Plastic Tray Dimensions (mm)



30pcs /Inner Carton

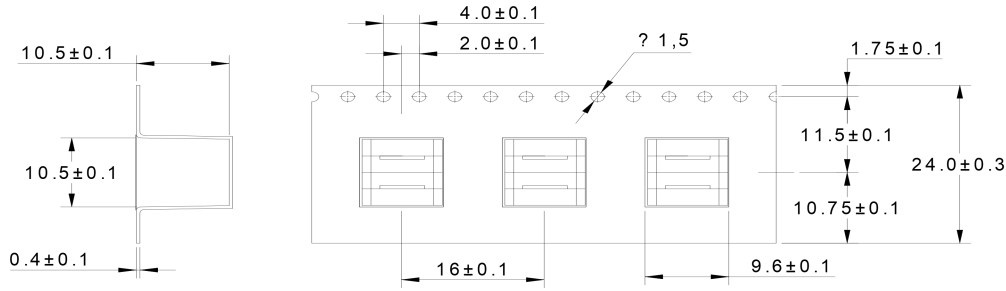


9 Inner Carton /Out Carton



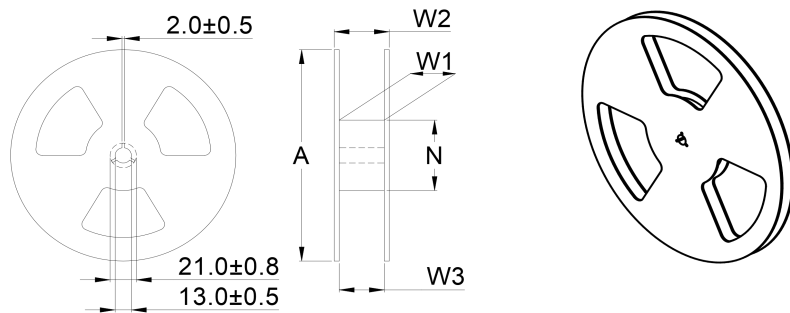
• ACKSP1010S PACKAGING SPECIFICATION ACKSP1010S包装规格

Carrier Tape Dimensions (mm)

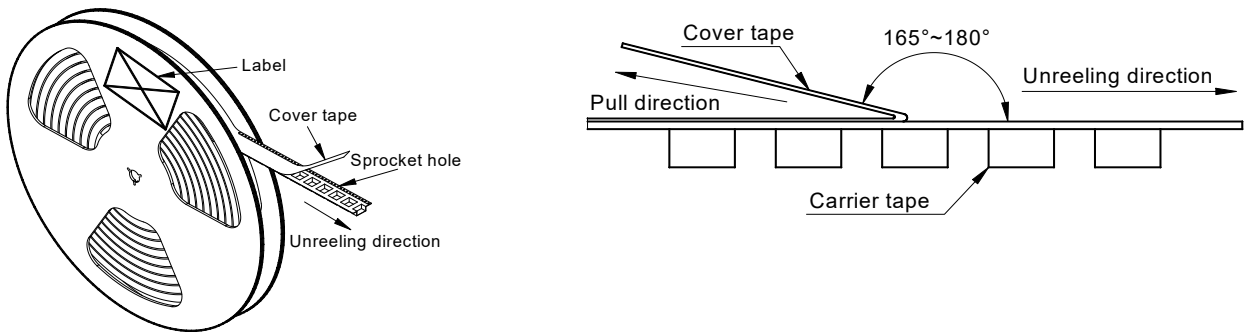


Reel dimensions (mm)

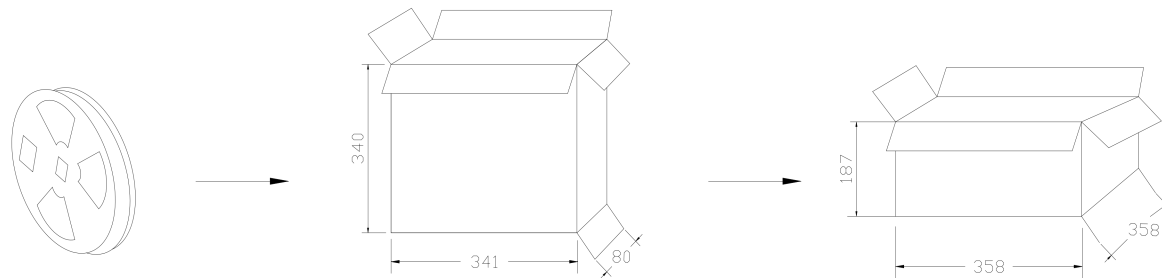
No.	Dimension
A	330±2.0
N	100 Min
W1	24.4+2.0/-0
W2	38.4 Max
W3	31.90 Min



Cover tape peel-off condition



Carton Dimensions and Packing Quantity



300pcs/Reel

600pcs/Inner Carton

1200pcs/Out Carton

Part Number	Inductance	DC Resistance		Saturation Current	Rated Current
Units	μH	$\text{m}\Omega$		A	A
Tol	$\pm 20\%$	Typ	Max	Typ	Typ
ACKSP1010S-4.7uH/M	4.70	15.0	18.0	10.0	5.2
ACKSP1010S-6.8uH/M	6.80	15.0	18.0	7.5	5.2
ACKSP1010S-8.2uH/M	8.20	15.0	18.0	6.4	5.2
ACKSP1010S-10uH/M	10.00	16.4	19.0	5.6	5.0
ACKSP1010S-12uH/M	12.00	22.0	25.0	5.2	4.3
ACKSP1010S-15uH/M	15.00	32.7	32.9	4.7	3.5
ACKSP1010S-22uH/M	22.00	43.0	50.0	3.5	2.5

ACKSP1010S-4.7uH/M	4.7
ACKSP1010S-6.8uH/M	6.8
ACKSP1010S-8.2uH/M	8.2
ACKSP1010S-10uH/M	10
ACKSP1010S-12uH/M	12
ACKSP1010S-15uH/M	15
ACKSP1010S-22uH/M	22

15	18	40	10
15	18	35	7.5
15	18	31	6.4
16.4	19	25	5.6
22	25	26	5.2
32.7	32.9	22.5	4.7
43	50	18	3.5

5.2

5.2

5.2

5

4.3

3.5

2.5