

WEIDY®

东莞市纬迪实业有限公司

NO.

APS-1607-006

Version

A/0

Date

2016.7.16

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Metallized Polypropylene Film Capacitor(dipped)

Datasheet for film capacitor W36

Customer

WEIDY PART NO	Product specification	CUSTOMER'S PART NO.
W362J105JN8L00A0GC	CBB22-630V-105J-P20	
W362J684JN8L00B0GC	CBB22-630V-684J-P20	
W362J474JN8L00A0GC	CBB22-630V-474J-P20	

Seller		Buyer	
Approval		Approval	
Date	5/10/2019	Date	
Ratify	Tao Wentao	Ratify	
Audit	Chen Haiyong	Title	
Maker	Wen Xin	Remark	Pls send copy to us after approval

Company information

Company name: Shenzhen Weidy Industrial Development Co.,Ltd**Company address:** 5/F, New Asia Electronic Town, Zhenzhong Rd, Futian, Shenzhen, Guangdong, China.**TEL:** +86-755-82811688**FAX:** +86755-82812688<http://www.weidy.net>

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280V

310V

③ Rated capacitance value(Digit 6 to 8)

According to JIS

101=10x10¹pF=0.1nF 102=10x10²pF=1.0nF= 0.001uF 103=10x10³pF=10nF=0.01uF104=10x10⁴pF=100nF=0.1uF 105=10x10⁵pF=1000nF=1uF 106=10x10⁶pF=10000nF=10Uf

107 =100uF 108 =1000uF 109 =10000uF

④ Capacitance tolerance (Digit 9)

Tolerance	± 1%	± 2%	± 3%	± 5%	±10%	±15%	± 20%	0~+10%	0~-10%		
Code	F	G	H	J	K	L	M	T	P		

⑤ Pitch/ Length of Axial products (Digit 10)

Pitch	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	10.0	12.5	15.0	20.0
Code	A	B	C	D	E	F	G	H	J	K	L	M	N
Pitch	22.0	22.5	25.0	27.0	27.5	30.0	31.0	32	37	26	8		
Code	P	Q	R	S	T	U	V	W	X	Y	1		
Pitch	15	19	21	27	32	37	42	46	24	50	56		
Code	1	2	3	4	5	6	7	8	9	A	B		

*When the products are axial products, it stands for the length of the products

⑥ Lead (Digit 11)

Lead	CP 0.5	CP 0.6	CP 0.7	CP 0.8	CU 1.0	CU 0.8	CU 0.7	CU 1.2	CP 1.0		
code	5	6	7	8	1	9	4	A	C		

⑦ Package type and code of Lead Configuration(12)

Code	Remarks
S	Straight leads, lead Cut ($L \leq 8\text{mm}$)
M	Straight leads, lead Cut ($20\text{mm} > L > 8\text{mm}$)
L	Straight leads, lead Cut ($L \geq 20\text{mm}$)
W	Leads bent into 90 Degree
K	Forming lead(tolerance of lead length $\pm 0.5\text{mm}$)
Y	Forming lead(tolerance of lead length $\pm 0.3\text{mm}$)
T	Taping packing

⑧ Internal use (Digit 13 ~ 18)

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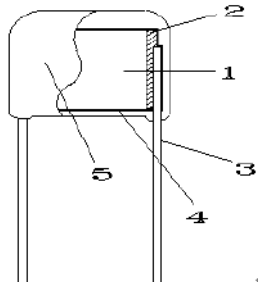
Date

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Metallized Polypropylene Film Capacitor(dipped)◇ **Features**

Product name	Metallized Polypropylene Film Capacitor (dipped)					
Reference Standard	GB/T 2693 (IEC 60384-1) GB/T14579 (IEC 60384-17)					
Construction			<ol style="list-style-type: none"> 1. Metallized Polypropylene Film 2. Metal spray 3. Pin wire 4. Internal epoxy resin 5. Flame retardant Epoxy resin coating(UL94V-0) 			
Atmospheric conditions IEC 68-1	Standard atmospheric conditions (IEC 68-1-5.3) Base condition (IEC 68-1-5.1) Temperature : 15°C ~ 35°C Temperature: 20°C Humidity: 25% ~ 75% Atmospheric pressure: 101.3KPa Atmospheric pressure: 86KPa ~ 106KPa					
Technology Specifications	Climatic category: 40/105/21 Rated temperature: 85°C Operating Temperature Range: -40°C ~ 105°C (+85°C to 105°C: decreasing factor 1.25% per °C for V _R (dc)) Rated Voltage: 100V、250V、400V/450V、630V Capacitance Range: 0.001μF ~ 4.0μF Capacitance Tolerance: ±5% (J) ; ±10% (K) Voltage Proof: 1.6U _R (5s) Voltage Applied Speed: 100V/S; Cut off current: 5mA Dissipation Factor: ≤0.1% (20°C, 1KHz) Insulation Resistance: ≥50000MΩ ; C _R ≤0.33μF ≥15000S; C _R > 0.33μF (20°C, 100V,1min)					
Terminal Strength IEC 68-2-21	Tension	Dia. (mm)	Tension	Bend	Dia. (mm)	Load
		0.3 < d ≤ 0.5	5N		0.3 < d ≤ 0.5	2.5N
		0.5 < d ≤ 0.8	10N		0.5 < d ≤ 0.8	5N
		0.8 < d ≤ 1.25	20N		0.8 < d ≤ 1.25	10N
	Time duration: 10±1second After above test, no visible damage.					

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Solder ability IEC 68-2-20	Soldering temperature: 235°C±5°C Immersion duration: 2.0s±0.5s Good Tinning		
Soldering heat IEC 68-2-20	Soldering temperature: 260°C±5°C Immersion duration: 10s±1s Dip depth from the mounting surface 2+0/-0.5mm, using the thickness of 1.5mm ± 0.5mm insulation shielding plate Capacitance change: $\Delta C/C : \leq \pm(2\%+2PF)$ of the value before test. DF change $\tan\delta : \leq$ rated value at 1 KHZ .		
Temperature Cycling IEC 68-2-14	Temperature : $\theta A = -40^{\circ}C$; $\theta B = +105^{\circ}C$ Time duration: 30min ; Cycle times: 5 times ; Capacitance change: $\Delta C/C : \leq \pm 3\%$ DF change: $\tan\delta : \Delta \tan \delta : \leq 0.2\%$ at 1 KHZ . Insulation resistance: $\geq 50\%$ of the first testing value		
Vibration IEC 68-2-6	Frequency: 10~500Hz Direction and Duration: Per direction 2hrs, Total 6hrs ; Amplitude 0.75mm or acceleration 98m/s ² (Taking the severity of lower) No visible damage and deterioration in appearance		
Bump IEC 68-2-29	Bump times: 4000 times Acceleration: 390m/s ² Pulse duration: 6ms No visible damage and deterioration in appearance		
Climatic Sequence	Dry heat IEC 68-2-2	Temperature: +105°C Duration: 16h	Final measurement No breakdown or flashover; No visible damage and deterioration in appearance and the marking shall be legible Capacitance change: $\Delta C/C : \leq \pm(2\%+2PF)$ DF change: $\tan\delta : \leq$ Rated value or 1.4 times of the value before test at 1 KHZ . Insulation Resistance: $\geq 50\%$ of the value before test
	Damp heat cycle	Test Db,Severity b, the first cycle	
	Cold IEC 68-2-1	Temperature: -40°C duration: 2h	
	Low Air pressure IEC 68-2-13	Temperature: 15°C—35°C Pressure: 8.5KPa Duration: 1h apply UR at the last 1 minute.	
	Damp heat cycle IEC 68-2-30	Test Db,Severity b,the other cycles, apply UR for 1minute after the test finished.	

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Damp Heat
Test
IEC 68-2-3

Temperature: $40^{\circ}\text{C} \pm 2^{\circ}\text{C}$

Humidity: $93 \pm 2/-3 \%$

Duration: 21 days

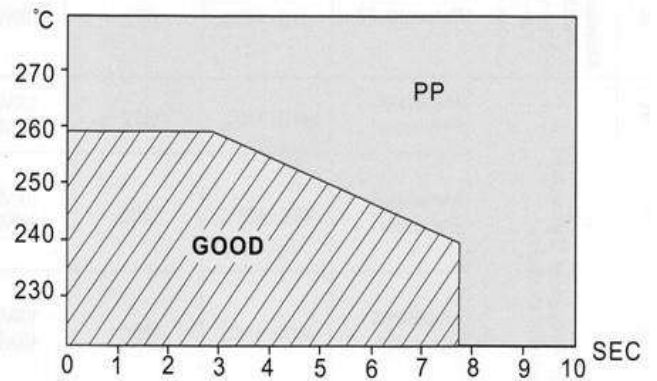
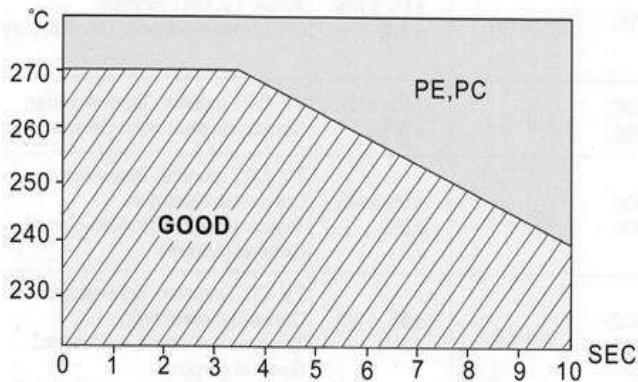
No visible damage and deterioration in appearance and the marking shall be legible

Capacitance change: $\Delta C/C : \leq \pm 5\%$

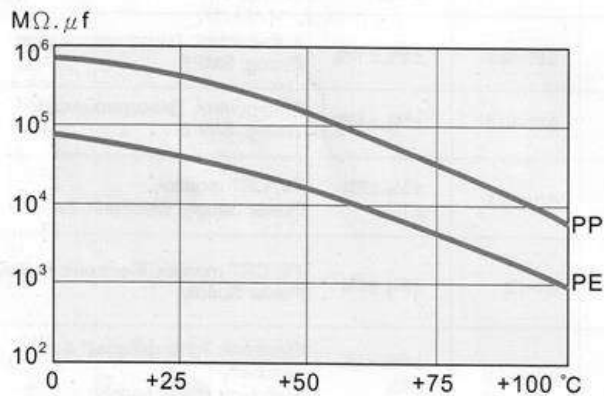
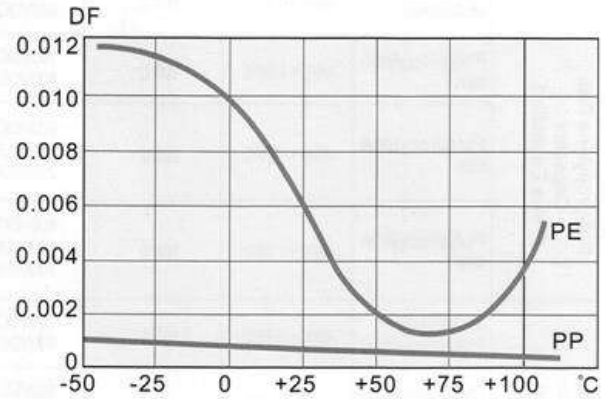
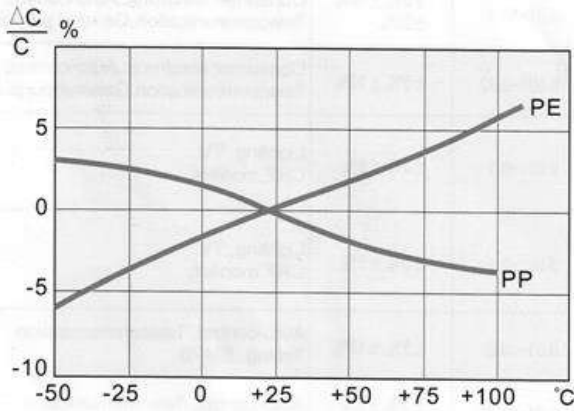
DF Change: $\Delta \tan \delta : \leq 0.2\%$ at 1 KHZ .

Insulation Resistance: $\geq 50\%$ of the value before test

◇ Soldering Temperature VS Time



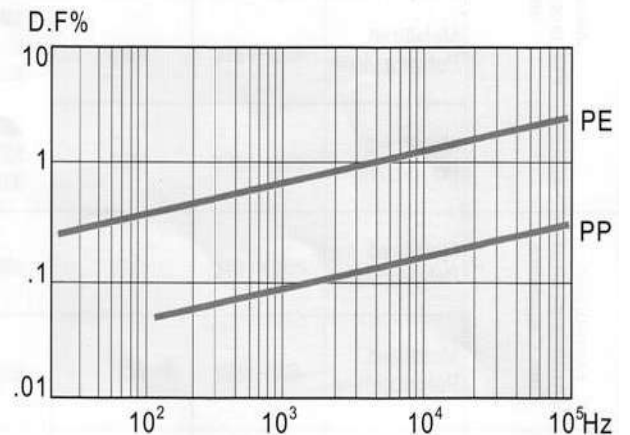
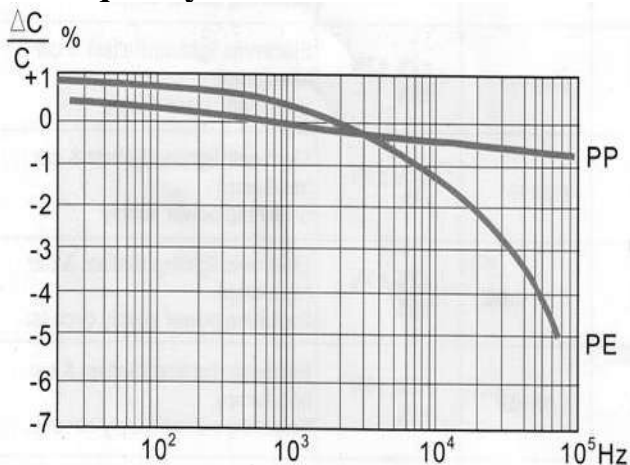
◇ Temperature Characteristics



PP: 聚丙烯薄膜 (Polypropylene Film)

PE: 聚酯薄膜 (Polyester Film)

◇ Frequency Characteristics



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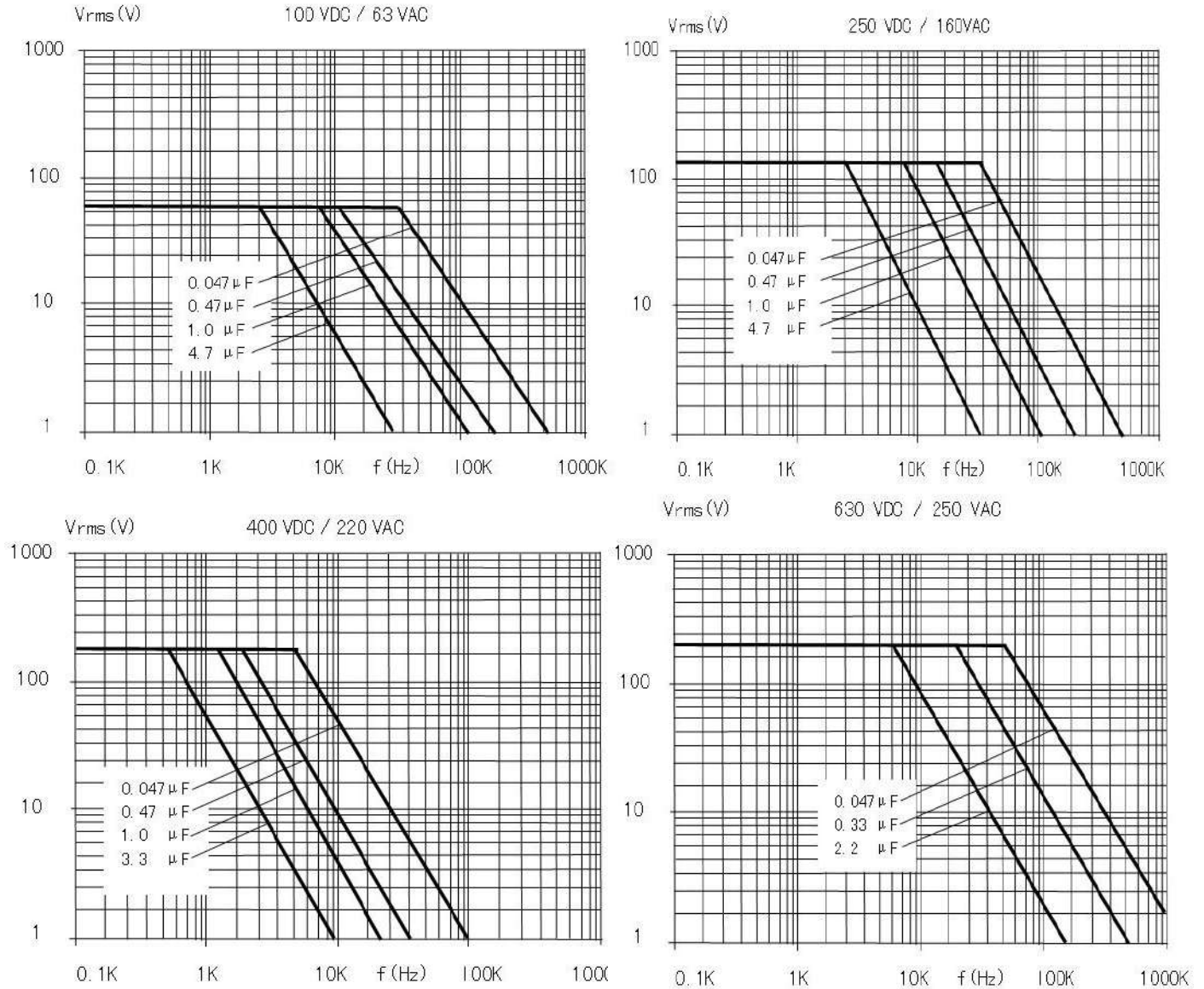
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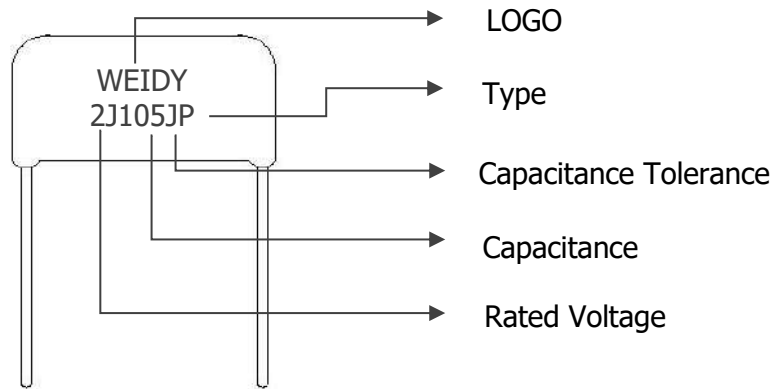
Metallized Polypropylene Film Capacitor(dipped)

◇ Permissible AC Voltage VS Frequency Curve



Remark: Sine wave, Environmental temperature $\leq 85^{\circ}\text{C}$

◇ Marking Specification



◇ Taping Drawing&Dimensions

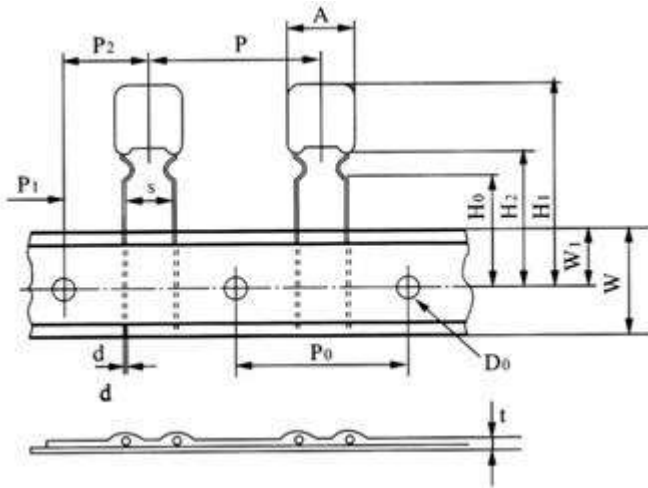


Fig.1

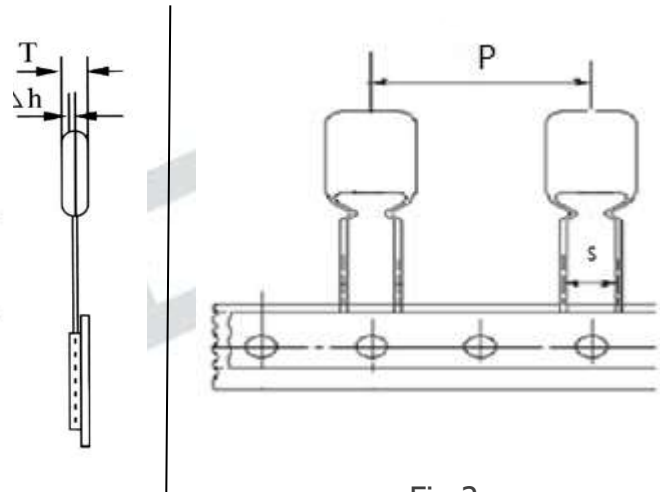


Fig.2

Technique Data	Code	Size (mm)					Technique Data	Code	Size (mm)				
		P=5	P=7.5	P=10	P=15	Tolerance			P=5	P=7.5	P=10	P=15	Tolerance
Taping Type		Fig 1	Fig1	Fig2	Fig2		Taping Type		Fig1	Fig1	Fig2	Fig2	
Section distance	P	12.7	12.7	25.4	25.4	±1.0	Section distance	W	18.0	18.0	18.0	18.0	±0.5
Distance between two hole	P0	12.7	12.7	12.7	12.7	±0.3	Distance between two hole	W1	9.0	9.0	9.0	9.0	±0.5
Leads position	P1	3.8 5	2.6	7.7	5.2	±0.7	Leads position	H0	16	16	16	16	±0.5
Pitch for forming type	S	5.0	7.5	10.0	15.0	±0.5	Pitch for forming type	H1	39	39	39	39	max
Body position	P2	6.3 5	6.35	12.7	12.7	±1.3	Dia. Of the hole	D0	4.0	4.0	4.0	4.0	±0.3
Product Inclination	Δh	0	0	0	0	±0.2	Tape thickness	t	0.7	0.7	0.7	0.7	±0.2

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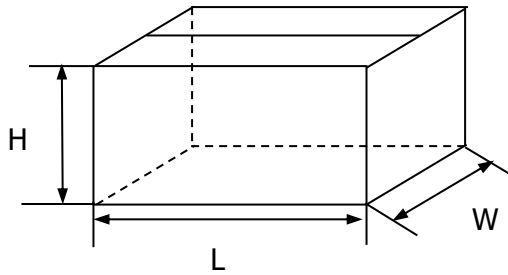
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◇ Carton Size

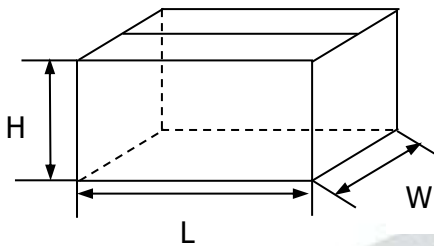


Out packaging box for bulk

L: 480mm

W: 320mm

H: 280mm

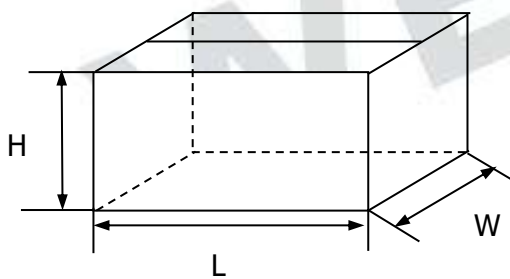


Inner packing box for bulk

L: 280mm

W: 225mm

H: 120mm

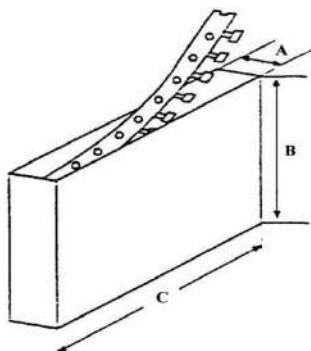


Out packaging box for taping

L: 640mm

W: 360mm

H: 290mm



Inner packing box for taping

A: 50mm

B: 320mm

C: 330mm