Product specifications

Product name： **CL11 Type Film Capacitor**

Specifications： Series

Parts origin： **China Shantou**

汕头高新区松田实业有限公司
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Attachment：

Specifications

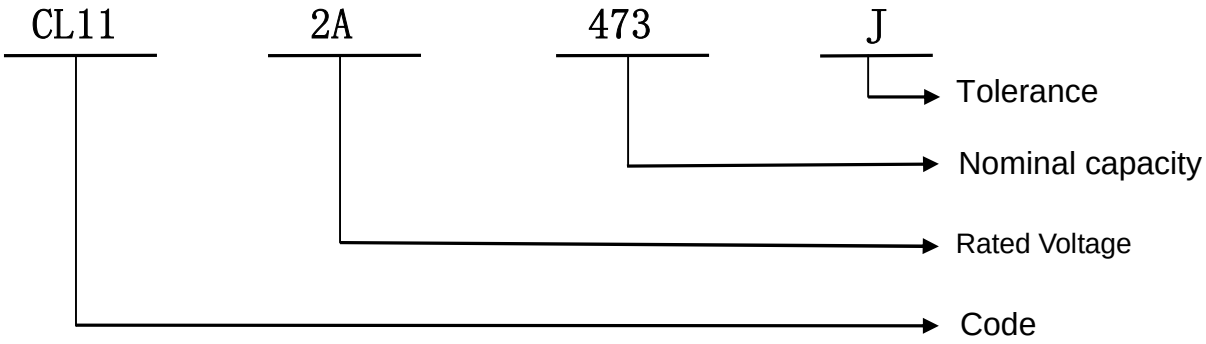
NO.	2A（100V）		2E（250V）		2G（400V）	
1	2A101J	2A103J	2E102J	2E563J	2G102J	/
2	2A151J	2A123J	2E122J	2E683J	2G122J	/
3	2A181J	2A153J	2E152J	2E823J	2G152J	/
4	2A221J	2A183J	2E182J	2E104J	2G182J	/
5	2A271J	2A203J	2E222J	2E124J	2G222J	/
6	2A301J	2A223J	2E272J	2E154J	2G272J	/
7	2A331J	2A273J	2E302J	2E184J	2G302J	/
8	2A391J	2A303J	2E332J	2E204J	2G332J	/
9	2A471J	2A333J	2E392J	2E224J	2G392J	/
10	2A561J	2A393J	2E432J	2E274J	2G432J	/
11	2A681J	2A403J	2E472J	2E334J	2G472J	/
12	2A821J	2A473J	2E562J	2E394J	2G562J	/
13	2A102J	2A563J	2E682J	2E474J	2G682J	/
14	2A122J	2A683J	2E822J	/	2G822J	/
15	2A152J	2A823J	2E103J	/	2G103J	/
16	2A182J	2A104J	2E123J	/	2G123J	/
17	2A222J	2A124J	2E153J	/	2G153J	/
18	2A272J	2A154J	2E183J	/	2G183J	/
19	2A302J	2A184J	2E203J	/	2G223J	/
20	2A332J	2A204J	2E223J	/	2G273J	/
21	2A392J	2A224J	2E273J	/	2G333J	/
22	2A432J	2A274J	2E303J	/	2G473J	/
23	2A472J	2A334J	2E333J	/	2G563J	/
24	2A562J	2A394J	2E393J	/	2G683J	/
25	2A682J	2A474J	2E403J	/	2G823J	/
26	2A822J	/	2E473J	/	2G104J	/

NO.	2J（630V）	3A（1000V）	High temperature film（105℃）	
27	2J102J	3A101J	2E473J	3A682J
28	2J122J	3A151J	2E683J	3A103J
29	2J152J	3A181J	2G333J	102J/1200V
30	2J182J	3A221J	2J102J	122J/1200V
31	2J222J	3A271J	2J152J	152J/1200V
32	2J272J	3A301J	2J272J	182J/1200V
33	2J332J	3A331J	2J332J	202J/1200V
34	2J392J	3A391J	2J682J	222J/1200V
35	2J472J	3A471J	2J822J	242J/1200V
36	2J562J	3A561J	3A102J	272J/1200V
37	2J622J	3A681J	3A122J	302J/1200V
38	2J682J	3A821J	3A152J	332J/1200V
39	2J822J	3A102J	3A182J	362J/1200V
40	2J103J	3A122J	3A202J	392J/1200V
41	2J123J	3A152J	3A222J	432J/1200V
42	2J153J	3A182J	3A242J	472J/1200V
43	2J183J	3A222J	3A272J	512J/1200V
44	2J223J	3A272J	3A302J	562J/1200V
45	2J273J	3A332J	3A332J	622J/1200V
46	2J333J	3A472J	3A362J	682J/1200V
47	2J473J	3A562J	3A392J	471J/1200V
48	2J563J	3A682J	3A432J	561J/1200V
49	2J683J	3A822J	3A472J	821J/1200V
50	2J823J	/	3A512J	/
51	2J104J	/	3A562J	/
52	/	/	3A622J	/

Attention：
all norminal products above, if you want anything special please let us know.thanks.

Directory

1. Part NO.Explain



〈1〉 Rated Voltage

Code	A	B	C	D	E	F	G	H	J
1	10	12.5	16	20	25	/	/	50	63
2	100	125	/	200	250	/	400	500	630
3	1000	/	1600	2000	2500	3150	4000	5000	6300

Note: special voltage is 1200 V use 3 T, said 1800 V use 3 Y said.

〈2〉 Nominal capacitance

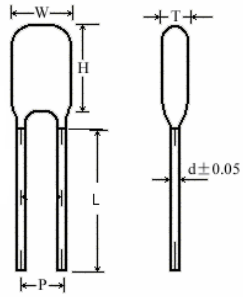
Code	101	471	332	472	103	473	104	474
Nominal capacitance	100PF	470PF	3.3nF	4.7nF	0.01μF	0.047μF	0.1μF	0.47μF

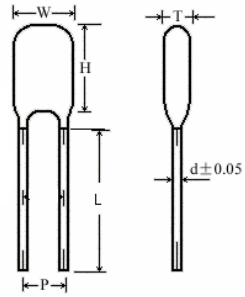
Attention: Nominal capacitance apply for 3-digit number ,meatures by PF,which mean the first two number is affetive ,the third number mean the amount of zero.

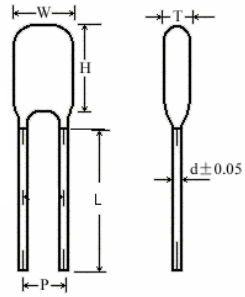
〈3〉 Capacitance Tolerance

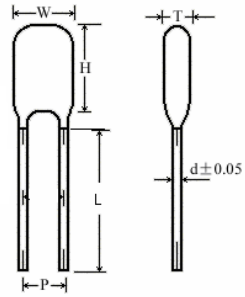
Code	F	G	J	K
Capacitance Tolerance	±1.0%	±2.0%	±5.0%	±10%

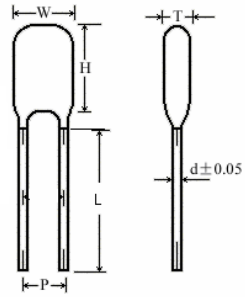
2. Specification list

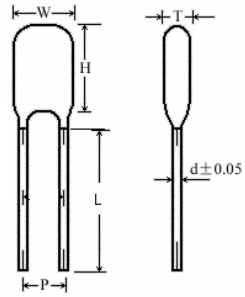
Specifications	Lmin (mm)	W±1 (mm)	H±1 (mm)	T±1 (mm)	P±0.5 (mm)	d±0.05 (mm)	Graphic of dimension
2A101J	20.0	7.5	12.0	4.0	5.5	0.5	
2A151J	20.0	6.5	10.5	4.0	4.5	0.5	
2A181J	20.0	6.0	10.0	3.5	4.5	0.5	
2A221J	20.0	6.5	10.0	3.5	5.0	0.5	
2A271J	20.0	6.5	11.0	3.5	4.5	0.5	
2A301J	20.0	6.5	11.0	3.5	4.0	0.5	
2A331J	20.0	6.0	10.5	3.0	4.0	0.5	
2A391J	20.0	6.5	11.0	3.5	4.0	0.5	
2A471J	20.0	5.5	11.0	3.5	4.0	0.5	
2A561J	20.0	6.0	10.5	3.0	4.0	0.5	
2A681J	20.0	6.0	11.0	3.5	4.0	0.5	
2A821J	20.0	6.0	11.0	3.5	4.0	0.5	
2A102J	20.0	5.0	9.5	2.5	3.5	0.5	
2A122J	20.0	5.0	9.5	2.5	3.5	0.5	
2A152J	20.0	5.0	9.5	3.0	4.0	0.5	
2A182J	20.0	5.5	9.5	3.0	4.0	0.5	
2A222J	20.0	5.5	9.0	3.0	4.0	0.5	
2A272J	20.0	5.5	9.0	3.0	4.0	0.5	
2A302J	20.0	5.5	9.5	3.0	4.0	0.5	
2A332J	20.0	5.5	9.5	3.0	4.0	0.5	
2A392J	20.0	5.0	9.0	3.0	4.0	0.5	
2A432J	20.0	5.0	9.0	3.0	4.0	0.5	
2A472J	20.0	5.5	9.0	3.0	4.3	0.5	
2A562J	20.0	5.5	9.0	3.0	4.0	0.5	
2A682J	20.0	6.0	9.0	3.0	4.0	0.5	
2A822J	20.0	6.5	10.0	4.0	4.0	0.5	
2A103J	20.0	5.5	9.0	3.0	4.0	0.5	
2A123J	20.0	6.0	9.5	3.0	4.5	0.5	
2A153J	20.0	6.0	9.0	3.5	5.0	0.5	
2A183J	20.0	6.5	9.5	3.5	5.0	0.5	
2A203J	20.0	6.5	9.5	3.5	5.0	0.5	

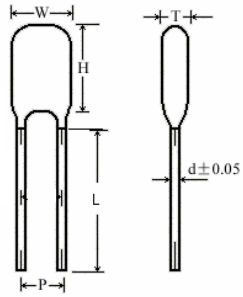
Specifications	Lmin (mm)	W±1 (mm)	H±1 (mm)	T±1 (mm)	P±0.5 (mm)	d±0.05 (mm)	Graphic of dimension
2A223J	20.0	6.5	9.5	3.5	5.0	0.5	
2A273J	20.0	7.0	9.5	4.0	5.0	0.5	
2A303J	20.0	7.0	11.0	3.5	5.0	0.5	
2A333J	20.0	7.0	11.0	3.5	5.5	0.5	
2A393J	20.0	7.0	11.5	3.5	5.5	0.5	
2A403J	20.0	7.5	11.5	3.5	5.5	0.5	
2A473J	20.0	7.5	11.5	4.0	5.0	0.5	
2A563J	20.0	8.0	11.5	4.0	6.0	0.5	
2A683J	20.0	8.0	12.0	4.5	6.0	0.5	
2A823J	20.0	8.5	12.0	4.5	6.5	0.5	
2A104J	20.0	9.5	12.0	5.0	7.0	0.5	
2A124J	20.0	10.0	12.0	5.5	7.0	0.5	
2A154J	20.0	10.0	12.0	5.5	7.0	0.5	
2A184J	20.0	10.5	12.0	6.0	7.0	0.5	
2A204J	20.0	10.5	12.0	6.0	7.5	0.5	
2A224J	20.0	11.0	12.0	7.0	7.5	0.5	
2A274J	20.0	12.0	13.0	7.5	7.5	0.5	
2A334J	20.0	12.5	15.0	7.5	7.5	0.5	
2A394J	20.0	14.0	15.0	7.5	8.0	0.5	
2A474J	20.0	14.0	15.0	8.0	8.5	0.5	
2E102J	20.0	5.0	9.5	2.5	3.5	0.5	
2E122J	20.0	5.0	9.5	2.5	3.5	0.5	
2E152J	20.0	5.0	9.5	3.0	4.0	0.5	
2E182J	20.0	5.5	9.5	3.0	4.0	0.5	
2E222J	20.0	5.5	9.0	3.0	4.0	0.5	
2E272J	20.0	5.5	9.0	3.0	4.0	0.5	
2E302J	20.0	5.5	9.5	3.0	4.0	0.5	
2E332J	20.0	5.5	9.5	3.0	4.0	0.5	
2E392J	20.0	5.0	9.0	3.0	4.0	0.5	
2E432J	20.0	5.0	9.0	3.0	4.0	0.5	
2E472J	20.0	5.5	9.0	3.0	4.3	0.5	
2E562J	20.0	5.5	9.0	3.0	4.0	0.5	
2E682J	20.0	6.0	9.0	3.0	4.0	0.5	

Specifications	Lmin (mm)	W±1 (mm)	H±1 (mm)	T±1 (mm)	P±0.5 (mm)	d±0.05 (mm)	Graphic of dimension
2E822J	20.0	6.5	10.0	4.0	4.0	0.5	
2E103J	20.0	5.5	9.0	3.0	4.0	0.5	
2E123J	20.0	6.0	9.5	3.0	4.5	0.5	
2E153J	20.0	6.0	9.0	3.5	5.0	0.5	
2E183J	20.0	6.5	9.5	3.5	5.0	0.5	
2E203J	20.0	6.5	9.5	3.5	5.0	0.5	
2E223J	20.0	6.5	9.5	3.5	5.0	0.5	
2E273J	20.0	7.0	9.5	4.0	5.0	0.5	
2E303J	20.0	7.0	11.0	3.5	5.0	0.5	
2E333J	20.0	7.0	11.0	3.5	5.5	0.5	
2E393J	20.0	7.0	11.5	3.5	5.5	0.5	
2E403J	20.0	7.5	11.5	3.5	5.5	0.5	
2E473J	20.0	7.5	11.5	4.0	5.0	0.5	
2E563J	20.0	8.0	11.5	4.0	6.0	0.5	
2E683J	20.0	8.0	12.0	4.5	6.0	0.5	
2E823J	20.0	8.5	12.0	4.5	6.5	0.5	
2E104J	20.0	9.5	12.0	5.0	7.0	0.5	
2E124J	20.0	10.0	12.0	5.5	7.0	0.5	
2E154J	20.0	10.0	12.0	5.5	7.0	0.5	
2E184J	20.0	10.5	12.0	6.0	7.0	0.5	
2E204J	20.0	10.5	12.0	6.0	7.5	0.5	
2E224J	20.0	11.0	12.0	7.0	7.5	0.5	
2E274J	20.0	12.0	13.0	7.5	7.5	0.5	
2E334J	20.0	12.5	15.0	7.5	7.5	0.5	
2E394J	20.0	14.0	15.0	7.5	8.0	0.5	
2E474J	20.0	14.0	15.0	8.0	8.5	0.5	
2G102J	20.0	5.0	9.5	2.5	3.5	0.5	
2G122J	20.0	5.0	9.5	2.5	3.5	0.5	
2G152J	20.0	5.0	9.5	3.0	4.0	0.5	
2G182J	20.0	5.5	9.5	3.0	4.0	0.5	
2G222J	20.0	5.5	9.0	3.0	4.0	0.5	
2G272J	20.0	5.5	9.0	3.0	4.0	0.5	
2G302J	20.0	5.5	9.5	3.0	4.0	0.5	

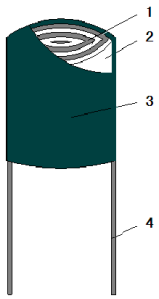
Specifications	Lmin (mm)	W±1 (mm)	H±1 (mm)	T±1 (mm)	P±0.5 (mm)	d±0.05 (mm)	Graphic of dimension
2G332J	20.0	5.5	9.5	3.0	4.0	0.5	
2G392J	20.0	5.0	9.0	3.0	4.0	0.5	
2G432J	20.0	5.0	9.0	3.0	4.0	0.5	
2G472J	20.0	5.5	9.0	3.0	4.3	0.5	
2G562J	20.0	5.5	9.0	3.0	4.0	0.5	
2G682J	20.0	6.0	9.0	3.0	4.0	0.5	
2G822J	20.0	6.5	10.0	4.0	4.0	0.5	
2G103J	20.0	6.5	11.0	3.0	4.5	0.5	
2G123J	20.0	6.5	11.5	3.5	5.0	0.5	
2G153J	20.0	7.5	11.5	4.0	5.0	0.5	
2G183J	20.0	7.5	12.0	4.0	5.5	0.5	
2G223J	20.0	7.5	11.5	4.5	5.5	0.5	
2G273J	20.0	9.0	13.0	5.0	7.0	0.5	
2G333J	20.0	9.5	12.0	5.0	7.5	0.5	
2G473J	20.0	10.5	13.5	6.0	7.5	0.5	
2G563J	20.0	11.0	13.0	6.5	7.5	0.5	
2G683J	20.0	12.0	13.5	7.0	8.0	0.5	
2G823J	20.0	12.5	13.0	7.5	8.0	0.5	
2G104J	20.0	12.5	15.0	8.0	8.0	0.5	
2J102J	20.0	5.0	11.5	2.5	3.5	0.5	
2J122J	20.0	5.5	11.5	2.5	3.5	0.5	
2J152J	20.0	5.5	11.5	2.5	4.0	0.5	
2J182J	20.0	5.5	11.5	3.0	4.0	0.5	
2J222J	20.0	5.5	11.5	3.0	4.0	0.5	
2J272J	20.0	5.5	11.0	3.0	4.0	0.5	
2J332J	20.0	5.5	11.0	3.0	4.0	0.5	
2J392J	20.0	5.5	11.5	3.0	4.0	0.5	
2J472J	20.0	6.0	11.5	3.5	4.5	0.5	
2J562J	20.0	7.0	11.5	3.5	5.0	0.5	
2J622J	20.0	7.0	11.5	3.5	5.0	0.5	
2J682J	20.0	7.0	11.5	3.5	5.0	0.5	
2J822J	20.0	7.5	12.0	4.0	5.5	0.5	
2J103J	20.0	7.0	12.0	4.0	5.5	0.5	

Specifications	Lmin (mm)	W±1 (mm)	H±1 (mm)	T±1 (mm)	P±0.5 (mm)	d±0.05 (mm)	Graphic of dimension
2J123J	20.0	7.5	12.5	4.5	5.5	0.5	
2J153J	20.0	8.0	12.5	5.0	5.5	0.5	
2J183J	20.0	8.5	12.5	5.5	5.5	0.5	
2J223J	20.0	9.5	12.5	5.0	7.5	0.5	
2J273J	20.0	10.0	13.0	6.0	7.5	0.5	
2J333J	20.0	9.5	12.0	5.0	7.5	0.5	
2J473J	20.0	10.5	13.5	6.0	7.5	0.5	
2J563J	20.0	11.0	13.0	6.5	7.5	0.5	
2J683J	20.0	12.0	13.5	7.0	8.0	0.5	
2J823J	20.0	12.5	13.0	7.5	8.0	0.5	
2J104J	20.0	12.5	15.0	8.0	8.0	0.5	
3A101J	20.0	7.5	12.0	4.0	5.5	0.5	
3A151J	20.0	6.5	10.5	4.0	4.5	0.5	
3A181J	20.0	6.0	10.0	3.5	4.5	0.5	
3A221J	20.0	6.5	10.0	3.5	5.0	0.5	
3A271J	20.0	6.5	11.0	3.5	4.5	0.5	
3A301J	20.0	6.5	11.0	3.5	4.0	0.5	
3A331J	20.0	6.0	10.5	3.0	4.0	0.5	
3A391J	20.0	5.5	11.0	3.5	4.0	0.5	
3A471J	20.0	5.5	11.0	3.5	4.0	0.5	
3A561J	20.0	6.0	10.5	3.0	4.0	0.5	
3A681J	20.0	6.0	11.0	3.5	4.0	0.5	
3A821J	20.0	6.0	11.0	3.5	4.0	0.5	
3A102J	20.0	7.0	12.0	3.0	5.0	0.5	
3A122J	20.0	7.0	11.5	3.0	5.0	0.5	
3A152J	20.0	7.0	12.0	3.5	5.0	0.5	
3A182J	20.0	7.0	12.0	4.0	5.0	0.5	
3A222J	20.0	7.5	12.0	4.0	5.5	0.5	
3A272J	20.0	7.5	12.5	4.5	5.0	0.5	
3A332J	20.0	8.0	13.5	4.5	5.5	0.5	
3A472J	20.0	9.0	12.5	6.0	6.5	0.5	
3A562J	20.0	8.5	13.5	5.5	6.0	0.5	
3A682J	20.0	8.0	12.5	5.0	5.5	0.5	

Specifications	Lmin (mm)	W±1 (mm)	H±1 (mm)	T±1 (mm)	P±0.5 (mm)	d±0.05 (mm)	Graphic of dimension
3A822J	20.0	9.5	13.0	6.5	6.0	0.5	
2E473J	20.0	10.5	13.5	6.0	7.5	0.5	
2E683J	20.0	12.0	13.5	7.0	8.0	0.5	
2G333J	20.0	9.5	12.0	5.0	7.0	0.5	
2J102J	20.0	6.0	10.0	3.5	4.0	0.5	
2J152J	20.0	6.0	10.0	3.5	4.5	0.5	
2J272J	20.0	6.5	12.0	3.5	4.0	0.5	
2J332J	20.0	6.5	12.5	3.5	4.5	0.5	
2J682J	20.0	7.0	11.5	3.5	4.5	0.5	
2J822J	20.0	7.5	12.0	3.5	5.5	0.5	
3A102J	20.0	7.0	12.0	3.0	5.0	0.5	
3A122J	20.0	7.0	11.5	3.0	5.0	0.5	
3A152J	20.0	7.0	12.0	3.5	5.0	0.5	
3A182J	20.0	7.0	12.5	3.5	5.0	0.5	
3A202J	20.0	7.5	12.0	3.0	5.5	0.5	
3A222J	20.0	7.5	12.5	4.0	5.5	0.5	
3A242J	20.0	7.5	12.0	3.5	6.0	0.5	
3A272J	20.0	7.5	12.5	4.0	5.5	0.5	
3A302J	20.0	7.5	14.5	3.5	5.5	0.5	
3A332J	20.0	7.5	14.5	4.0	5.5	0.5	
3A362J	20.0	7.5	15.0	4.0	5.5	0.5	
3A392J	20.0	8.0	15.0	4.0	5.5	0.5	
3A432J	20.0	8.0	15.0	4.0	5.5	0.5	
3A472J	20.0	8.5	15.5	4.0	6.5	0.5	
3A512J	20.0	8.5	15.0	4.5	6.0	0.5	
3A562J	20.0	8.5	16.0	4.5	6.5	0.5	
3A622J	20.0	9.0	15.5	5.0	7.0	0.5	
3A682J	20.0	9.5	15.5	5.0	7.5	0.5	
3A103J	20.0	7.5	12	4.5	6.5	0.5	
102J/1200V	20.0	7.0	12.0	3.0	5.0	0.5	
122J/1200V	20.0	7.0	11.5	3.0	5.0	0.5	
152J/1200V	20.0	7.0	12.0	3.5	5.0	0.5	
182J/1200V	20.0	7.0	12.5	3.5	5.0	0.5	

Specifications	Lmin (mm)	W±1 (mm)	H±1 (mm)	T±1 (mm)	P±0.5 (mm)	d±0.05 (mm)	Graphic of dimension
202J/1200V	20.0	7.5	12.0	3.0	5.5	0.5	
222J/1200V	20.0	7.5	12.5	4.0	5.5	0.5	
242J/1200V	20.0	7.5	12.0	3.5	6.0	0.5	
272J/1200V	20.0	7.5	12.5	4.0	5.5	0.5	
302J/1200V	20.0	7.5	14.5	3.5	5.5	0.5	
332J/1200V	20.0	7.5	14.5	4.0	5.5	0.5	
362J/1200V	20.0	7.5	15.0	4.0	5.5	0.5	
392J/1200V	20.0	8.0	15.0	4.0	5.5	0.5	
432J/1200V	20.0	8.0	15.0	4.0	5.5	0.5	
472J/1200V	20.0	8.5	15.5	4.0	6.5	0.5	
512J/1200V	20.0	8.5	15.0	4.5	6.0	0.5	
562J/1200V	20.0	8.5	16.0	4.5	6.5	0.5	
622J/1200V	20.0	9.0	15.5	5.0	7.0	0.5	
682J/1200V	20.0	9.5	15.5	5.0	7.5	0.5	
471J/1200V	20.0	6.5	11.0	2.5	5.0	0.5	
561J/1200V	20.0	6.0	11.0	3.0	5.0	0.5	
821J/1200V	20.0	6.5	11.5	3	5.0	0.5	

3. Construction

Construction	Material	
	1	Aluminium foil
	2	Film
	3	Epoxy resin
	4	Tin-plated copper-clad steel wire

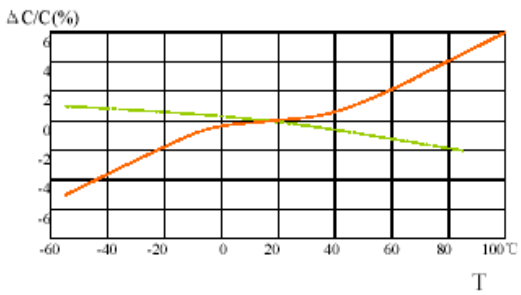
4. Demand of performance

NO.	Item	Demand of performance	Methods of testing
1	Reference Standard	GB6346 (IEC60384-11)	
2	Operating Temperature	-40℃～+85℃	
3	Rated Voltage	50V、100V、250V、400V、630V、1000V	
4	Capacitance Tolerance	J（±5%）、K（±10%）、	The capacitance and dissipation factor shall be measured at 25±2℃ with 1±0.1KHz and 1.0Vrms.
5	Dissipation Factor (D.F.)	tgδ≤1.0%	
6	Testing Voltage	No failure	The capacitor shall not be damage when 2.0 times rated voltage with charging current 50mA max are applied between the lead wires for 1minute.
7	Insulation Resistance (I.R.)	$C_R \leq 0.1\mu F$，I.R.≥30000MΩ $C_R > 0.1\mu F$，I.R.≥15000MΩ	The U_R <100V, test voltage of 10V, measured after charging 1min The U_R＞100V, test voltage of 100V, measured after charging 1min
8	Solderability of Leads	Lead wire shall be soldered with uniform coating on the axial direction over 95% of the circumferential direction.	Solder temperature：235±5℃； Soldering time：2.0±0.5S； The lead wire of a capacitor shall be dipped into molten solder of 235±5℃ for 2±0.5S. The depth of immersion is up to about 1.5 to 2.5mm from the root of lead wires.

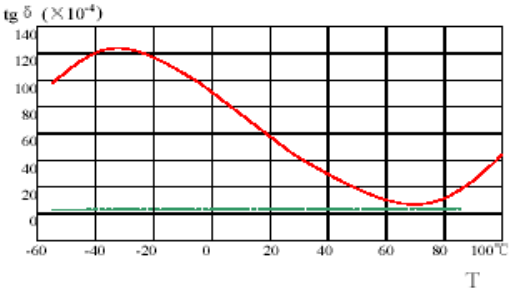
<table>
<tr><th>NO.</th><th>Item</th><th>Demand of performance</th><th>Methods of testing</th></tr>
<tr><td>9</td><td>Temperature Cycle</td><td>Appearance:
No visible damage</td><td>The capacitor shall be subjected to 5 temperature cycles.
<table>
<tr><th>Step</th><th>Temperature</th><th>Time</th></tr>
<tr><td>1</td><td>Min.Operating Temp. ±3℃</td><td>30min.</td></tr>
<tr><td>2</td><td>Room Temp.</td><td>3min.</td></tr>
<tr><td>3</td><td>Max.Operating Temp. ±3℃</td><td>30min.</td></tr>
<tr><td>4</td><td>Room Temp.</td><td>3min.</td></tr>
</table></td></tr>
<tr><td rowspan="2">10</td><td rowspan="2">Lead Strength</td><td rowspan="2">Appearance:
No visible damage</td><td>The load specified below shall be applied to the terminal in its draw-out direction gradually up to the specified value and held thus for (10±1) seconds.
<table>
<tr><th>Lead wire diameter</th><th>Tensile force</th></tr>
<tr><td>0.5mm</td><td>5N</td></tr>
</table></td></tr>
<tr><td>While applying the load specified below to the lead wire, the body of the capacitor shall be bend 90^0 and returned to the original position. This operation shall be conducted in 2-3 seconds.
Then the body shall be bent 90^0, at the same speed in the opposite direction and returned to the original position.
<table>
<tr><th>Lead wire diameter</th><th>Bending force</th></tr>
<tr><td>0.5mm</td><td>2.5N</td></tr>
</table></td></tr>
<tr><td>11</td><td>Soldering Effect</td><td>Appearance:
No visible damage
Change rate of capacitance:
△C/C⩽±2%（1KHz）</td><td>Solder temperature：260±5℃；
Soldering time：10±1S；
The lead wire of a capacitor shall be immersed in solder of 260±5℃ up to 1.5 to 2.5mm from the root of terminal for 10±0.5s.</td></tr>
</table>

NO.	Item	Demand of performance	Methods of testing
12	Moisture Resistance	Appearance: No visible damage Change rate of capacitance: △C/C≤±5%（1KHz） Dissipation factor:（1KHz） ≤ 0.01 or 120% Initial specified value (whichever is larger) Insulation resistance: ＞50％Initial specified value	The capacitor under shall be put in the testing oven and kept at condition of the temperature (40±2)℃ and the humidity at 90 to 95% for 21 days and then shall be let alone at ordinary condition for 1 to 2 hours, after which measurement shall be made.
13	Vibration Proof	Appearance: No visible damage	The capacitor shall be firmly soldered to the supporting lead wire and vibrated at a frequency range of 10 to 500Hz, 0.75mm in total amplitude, with about a 1 minute rate of vibration change from 10Hz to 55Hz and back to 10Hz. Apply for a total of 6 hours, 2 hrs each in 3 mutually perpendicular directions.
14	Life Test	Appearance: No visible damage Change rate of capacitance: △C/C≤±5%（1KHz） Dissipation factor:（1KHz） ≤ 0.01 or 120% Initial specified value (whichever is larger) Insulation resistance: ＞50％Initial specified value	The capacitor under the test shall be applied the voltage of 150% of rate voltage continuously through a resistance of 1Ω per one volt for 1000 hours in the testing oven and kept at condition of the temperature at (85±3)℃and then shall be let alone at ordinary condition for 1 to 2 hours, after which measurement shall be made.

5. Temperature Characteristic Curves



Capacitance vs. temperature at 1KHz

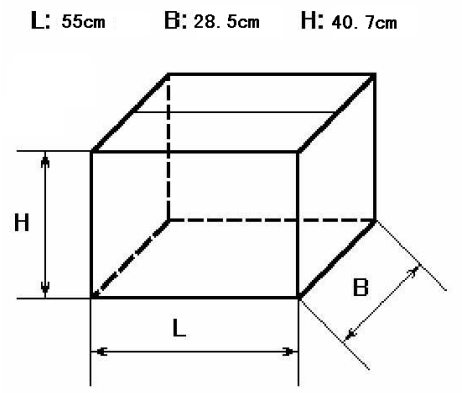


Dissipation factor vs.temperature at 1KHz

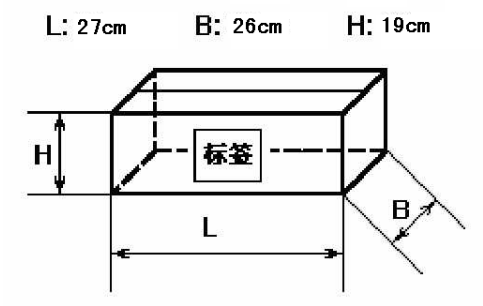
聚丙烯薄膜 (Polypropylene Film)
聚酯薄膜 〈Polyester Film〉

6. Package

Outside the box



Within the box



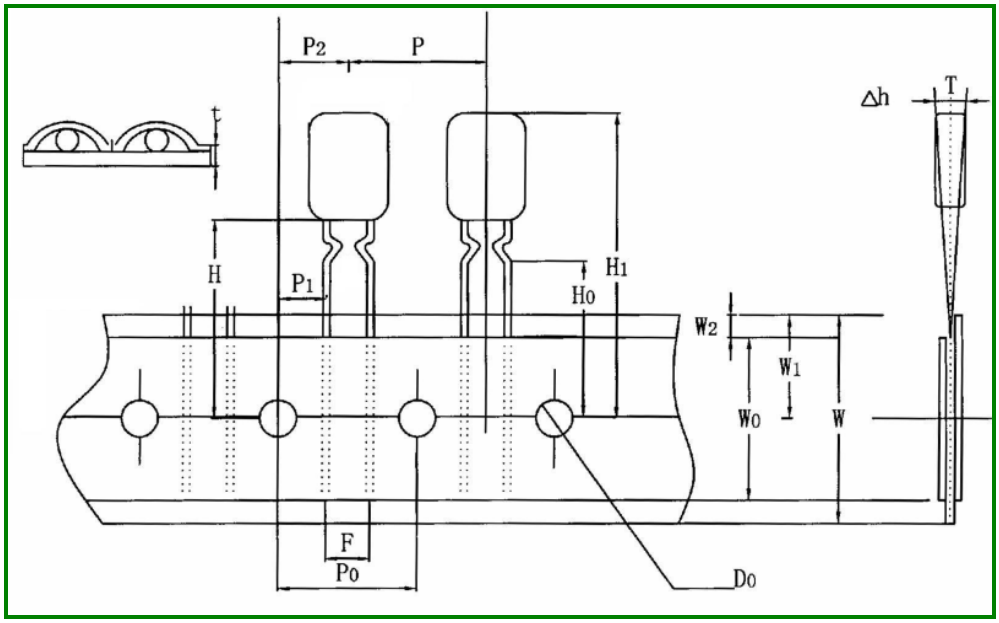
Note: the minimum number of packages: 200 PCS/bag
(due to different specifications pin pitch, number of packages is different also, with specific packaging shall prevail.)

7. Product labels

Note:More than for conventional neutral label of the company, if there are special requirements are negotiable.

8. Taped explain

◆Taped style



◆Taping specification

Description	Code	Dimension(㎜)
Body thickness	T	8.5 Max
Feed hole pitch	Po	12.7±0.3
Taping pitch	P	12.7±1.0
Feed hole off alignment	P1	3.85±0.7
Feed hole off alignment	P2	6.35±1.3
Lead spacing	F	5.0±0.5
Body inclination	Δh	0±2.0
Carrier tape width	W	18.0 +1.5/-1.0
Adhesive tape width	Wo	11.0 Max
Feed hole height off alignment	W1	9.0 +0.75/-0.5
Adhesive tape thickness	W2	3.0 Max
Top height	H1	32.25 Max
Feed hole diameter	Do	4.0±0.2
Bottom height	Ho	16±0.5
Overall tape thickness	t	0.7±0.2
Center hole to products from the bottom	H	22.75 max

9. Preservation and conditions of use:

A. Storage Temperature and humidity：-10～40℃，25～75％RH

B. Storage time：One year.

10. Environmental management control material

NO.	Types of hazardous substances	The name of the hazardous substances	Limited level
1	Heavy metals	Cadmium (Cd)/Cadmium Compounds	＜100ppm
		Lead (Pb)/Lead Compounds	＜1000ppm
		Mercury (Hg)/Mercury Compounds	＜1000ppm
		Hexavalent-Chromiun (Cr^{6+}) Compounds	＜1000ppm
2	Organic bromide	PBBs	＜1000ppm
		PBDEs	＜1000ppm

11.Test Report

（ROHS report see attachment）