



HITANO ENTERPRISE CORP.

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Data Sheet

Customer : _____
Product : Polypropylene Film/Foil series Capacitors, HPMP
Size : _____
Approval No : CC81825031203
Issued Date : 2025-07-01
Edition : 2.0

Record of change

Date	Ver.	Description	Page
2023-06-12	1.0		
2025-07-01	2.0	New	

VENDOR :

☐ HITANO ENTERPRISE CORP.

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MAKER :

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PART NUMBER SYSTEM

1	2	3	4	5	6	7	8	9	10
Type	Class	Capacitance Code (pF)	Tolerance	Rated Voltage(VDC)	Lead Configuration	Lead Space	Vice Lead(P1)	Lead Length	Accessories Yards
HPMP	B=BOX	First two digits =significant figures. Third digit =Number of zeros.	J=5% K=10% M=20%	2A=100 2C=160 2E=250 2G=400 2J=630 3A=1000 3B=1250 3C=1600 3D=2000	L=Lead (2 PIN)	E=15.0 H=22.5 K=27.5 Q=37.5	X=NA	L=15.0	Internal identification code

產品尺寸圖 PRODUCT DIMENSIONS

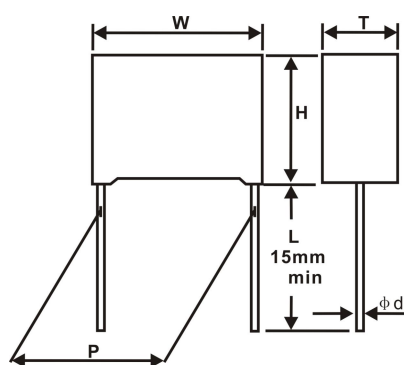


Fig. 1

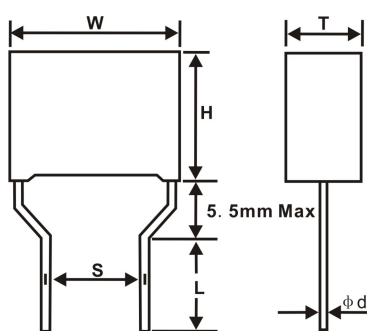


Fig. 2

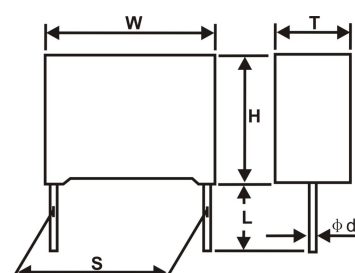


Fig. 3

奇彥產品型號 HITANO P/N	容值 CAP. (uF)	標志 Symbol	公差 Tol. ±%	電壓 Vr(DC)	尺寸毫米為單位 Dimensions in mm							dv/dt V/us	圖示 Fig.	備 注 Notes
					寬 W ±0.5	高 H ±0.5	厚 T ±0.5	腳距 P ±0.5	腳距 S ±0.5	線徑φd ±0.05	腳長 L Min			
HPMPB473K2ALEXL9	0.047	473	10	100	18.0	11.0	5.0	15.0	NA	0.6	15.0	2400	1	
HPMPB683K2ALEXL9	0.068	683	10	100	18.0	12.0	6.0	15.0	NA	0.8	15.0	2400	1	
HPMPB104K2ALEXL9	0.1	104	10	100	18.0	13.5	7.5	15.0	NA	0.8	15.0	2400	1	
HPMPB154K2ALEXL9	0.15	154	10	100	18.0	16.0	10.0	15.0	NA	0.8	15.0	2400	1	
HPMPB333K2CLEXL9	0.033	333	10	160	18.0	11.0	5.0	15.0	NA	0.6	15.0	3000	1	
HPMPB473K2CLEXL9	0.047	473	10	160	18.0	12.0	6.0	15.0	NA	0.8	15.0	3000	1	
HPMPB683K2CLEXL9	0.068	683	10	160	18.0	13.5	7.5	15.0	NA	0.8	15.0	3000	1	
HPMPB104K2CLEXL9	0.1	104	10	160	18.0	16.0	10.0	15.0	NA	0.8	15.0	3000	1	
HPMPB153K2ELEXL9	0.015	153	10	250	18.0	11.0	5.0	15.0	NA	0.6	15.0	4800	1	
HPMPB223K2ELEXL9	0.022	223	10	250	18.0	12.0	6.0	15.0	NA	0.8	15.0	4800	1	
HPMPB333K2ELEXL9	0.033	333	10	250	18.0	13.5	7.5	15.0	NA	0.8	15.0	4800	1	
HPMPB473K2ELEXL9	0.047	473	10	250	18.0	16.0	10.0	15.0	NA	0.8	15.0	4800	1	
HPMPB103K2GLEXL9	0.01	103	10	400	18.0	11.0	5.0	15.0	NA	0.6	15.0	6000	1	
HPMPB153K2GLEXL9	0.015	153	10	400	18.0	12.0	6.0	15.0	NA	0.8	15.0	6000	1	
HPMPB223K2GLEXL9	0.022	223	10	400	18.0	13.5	7.5	15.0	NA	0.8	15.0	6000	1	
HPMPB333K2GLEXL9	0.033	333	10	400	18.0	14.5	8.5	15.0	NA	0.8	15.0	6000	1	

奇彥產品型號 HITANO P/N	容值 CAP. (uF)	標志 Symbol	公差 Tol. ±%	電壓 Vr(DC)	尺寸毫米為單位 Dimensions in mm							dv/dt V/us	圖示 Fig.	備 注 Notes
					寬 W ±0.5	高 H ±0.5	厚 T ±0.5	腳距 P ±0.5	腳距 S ±0.5	線徑φd ±0.05	腳長 L Min			
HPMPB473K2GLEXL9	0.047	473	10	400	18.0	16.0	10.0	15.0	NA	0.8	15.0	6000	1	
HPMPB103K2JLEXL9	0.01	103	10	630	18.0	11.0	5.0	15.0	NA	0.6	15.0	11000	1	
HPMPB123K2JLEXL9	0.012	123	10	630	18.0	11.0	5.0	15.0	NA	0.6	15.0	11000	1	
HPMPB153K2JLEXL9	0.015	153	10	630	18.0	12.0	6.0	15.0	NA	0.8	15.0	11000	1	
HPMPB183K2JLEXL9	0.018	183	10	630	18.0	12.0	6.0	15.0	NA	0.8	15.0	11000	1	
HPMPB223K2JLEXL9	0.022	223	10	630	18.0	13.5	7.5	15.0	NA	0.8	15.0	11000	1	
HPMPB273K2JLEXL9	0.027	273	10	630	18.0	13.5	7.5	15.0	NA	0.8	15.0	11000	1	
HPMPB333K2JLEXL9	0.033	333	10	630	18.0	14.5	8.5	15.0	NA	0.8	15.0	11000	1	
HPMPB393K2JLEXL9	0.039	393	10	630	18.0	16.0	10.0	15.0	NA	0.8	15.0	11000	1	
HPMPB473K2JLEXL9	0.047	473	10	630	18.0	16.0	10.0	15.0	NA	0.8	15.0	11000	1	
HPMPB393K2JLHXL9	0.039	393	10	630	26.5	15.0	6.0	22.5	NA	0.8	15.0	11000	1	
HPMPB473K2JLHXL9	0.047	473	10	630	26.5	16.5	7.0	22.5	NA	0.8	15.0	11000	1	
HPMPB563K2JLHXL9	0.056	563	10	630	26.5	16.5	7.0	22.5	NA	0.8	15.0	11000	1	
HPMPB683K2JLHXL9	0.068	683	10	630	26.0	17.0	8.5	22.5	NA	0.8	15.0	11000	1	
HPMPB823K2JLHXL9	0.082	823	10	630	26.5	19.0	10.0	22.5	NA	0.8	15.0	11000	1	
HPMPB104K2JLHXL9	0.1	104	10	630	26.5	19.0	10.0	22.5	NA	0.8	15.0	11000	1	
HPMPB104K2JLKXL9	0.1	104	10	630	32.0	18.0	9.0	27.5	NA	0.8	15.0	11000	1	
HPMPB124K2JLKXL9	0.12	124	10	630	32.0	18.0	9.0	27.5	NA	0.8	15.0	11000	1	
HPMPB154K2JLKXL9	0.15	154	10	630	32.0	20.0	11.0	27.5	NA	0.8	15.0	11000	1	
HPMPB184K2JLKXL8	0.18	184	10	630	32.0	20.0	11.0	27.5	NA	0.8	15.0	11000	1	
HPMPB184K2JLKXL9	0.18	184	10	630	31.5	21.6	13.0	27.5	NA	0.8	15.0	11000	1	
HPMPB224K2JLKXL9	0.22	224	10	630	31.5	21.6	13.0	27.5	NA	0.8	15.0	11000	1	
HPMPB274K2JLKXL9	0.27	274	10	630	31.0	25.0	14.0	27.5	NA	0.8	15.0	11000	1	
HPMPB334K2JLKXL9	0.33	334	10	630	32.0	28.0	14.0	27.5	NA	0.8	15.0	11000	1	
HPMPB394K2JLKXL8	0.39	394	10	630	32.0	28.0	14.0	27.5	NA	0.8	15.0	11000	1	
HPMPB394K2JLKXL9	0.39	394	10	630	31.0	33.0	18.0	27.5	NA	0.8	15.0	11000	1	
HPMPB474K2JLKXL9	0.47	474	10	630	31.0	33.0	18.0	27.5	NA	0.8	15.0	11000	1	
HPMPB564K2JLKXL8	0.56	564	10	630	31.0	33.0	18.0	27.5	NA	0.8	15.0	11000	1	
HPMPB564K2JLKXL9	0.56	564	10	630	32.0	37.0	22.0	27.5	NA	0.8	15.0	11000	1	
HPMPB684K2JLKXL9	0.68	684	10	630	32.0	37.0	22.0	27.5	NA	0.8	15.0	11000	1	
HPMPB824K2JLKXL9	0.82	824	10	630	32.0	37.0	22.0	27.5	NA	0.8	15.0	11000	1	
HPMPB224K2JLQXL9	0.22	224	10	630	41.5	22.0	12.0	37.5	NA	1.0	15.0	3000	1	
HPMPB274K2JLQXL9	0.27	274	10	630	41.5	22.0	12.0	37.5	NA	1.0	15.0	3000	1	
HPMPB334K2JLQXL8	0.33	334	10	630	41.5	22.0	12.0	37.5	NA	1.0	15.0	3000	1	
HPMPB334K2JLQXL9	0.33	334	10	630	41.0	24.0	13.0	37.5	NA	1.0	15.0	3000	1	
HPMPB394K2JLQXL9	0.39	394	10	630	41.0	24.0	13.0	37.5	NA	1.0	15.0	3000	1	
HPMPB474K2JLQXL8	0.47	474	10	630	41.0	24.0	13.0	37.5	NA	1.0	15.0	3000	1	

奇彥產品型號 HITANO P/N	容值 CAP. (uF)	標志 Symbol	公差 Tol. ±%	電壓 Vr(DC)	尺寸毫米為單位 Dimensions in mm							dv/dt V/us	圖示 Fig.	備 注 Notes
					寬 W ±0.5	高 H ±0.5	厚 T ±0.5	腳距 P ±0.5	腳距 S ±0.5	線徑φd ±0.05	腳長 L Min			
HPMPB474K2JLQXL9	0.47	474	10	630	41.0	28.5	16.0	37.5	NA	1.0	15.0	3000	1	
HPMPB564K2JLQXL9	0.56	564	10	630	41.0	28.5	16.0	37.5	NA	1.0	15.0	3000	1	
HPMPB684K2JLQXL9	0.68	684	10	630	41.0	28.5	16.0	37.5	NA	1.0	15.0	3000	1	
HPMPB824K2JLQXL9	0.82	824	10	630	42.0	33.5	18.5	37.5	NA	1.0	15.0	3000	1	
HPMPB105K2JLQXL9	1.0	105	10	630	42.0	40.0	20.0	37.5	NA	1.0	15.0	3000	1	
HPMPB125K2JLQXL9	1.2	125	10	630	42.0	40.0	20.0	37.5	NA	1.0	15.0	3000	1	
HPMPB155K2JLQXL9	1.5	155	10	630	42.5	44.0	24.0	37.5	NA	1.0	15.0	3000	1	
HPMPB185K2JLQXL9	1.8	185	10	630	41.5	45.0	30.0	37.5	NA	1.0	15.0	3000	1	
HPMPB225K2JLQXL9	2.2	225	10	630	41.5	45.0	30.0	37.5	NA	1.0	15.0	3000	1	
HPMPB332K3ALEXL9	0.0033	332	10	1000	18.0	11.0	5.0	15.0	NA	0.6	15.0	28000	1	
HPMPB392K3ALEXL9	0.0039	392	10	1000	18.0	11.0	5.0	15.0	NA	0.6	15.0	28000	1	
HPMPB472K3ALEXL9	0.0047	472	10	1000	18.0	11.0	5.0	15.0	NA	0.6	15.0	28000	1	
HPMPB562K3ALEXL9	0.0056	562	10	1000	18.0	11.0	5.0	15.0	NA	0.6	15.0	28000	1	
HPMPB682K3ALEXL9	0.0068	682	10	1000	18.0	11.0	5.0	15.0	NA	0.6	15.0	28000	1	
HPMPB822K3ALEXL9	0.0082	822	10	1000	18.0	11.0	5.0	15.0	NA	0.6	15.0	28000	1	
HPMPB103K3ALEXL9	0.01	103	10	1000	18.0	12.0	6.0	15.0	NA	0.8	15.0	28000	1	
HPMPB123K3ALEXL9	0.012	123	10	1000	18.0	12.0	6.0	15.0	NA	0.8	15.0	28000	1	
HPMPB153K3ALEXL9	0.015	153	10	1000	18.0	13.5	7.5	15.0	NA	0.8	15.0	28000	1	
HPMPB183K3ALEXL9	0.018	183	10	1000	18.0	14.5	8.5	15.0	NA	0.8	15.0	28000	1	
HPMPB223K3ALEXL9	0.022	223	10	1000	18.0	14.5	8.5	15.0	NA	0.8	15.0	28000	1	
HPMPB273K3ALEXL9	0.027	273	10	1000	18.0	16.0	10.0	15.0	NA	0.8	15.0	28000	1	
HPMPB153K3ALHXL9	0.015	153	10	1000	26.5	15.0	6.0	22.5	NA	0.8	15.0	11000	1	
HPMPB183K3ALHXL9	0.018	183	10	1000	26.5	15.0	6.0	22.5	NA	0.8	15.0	11000	1	
HPMPB223K3ALHXL9	0.022	223	10	1000	26.5	15.0	6.0	22.5	NA	0.8	15.0	11000	1	
HPMPB273K3ALHXL9	0.027	273	10	1000	26.5	16.5	7.0	22.5	NA	0.8	15.0	11000	1	
HPMPB333K3ALHXL9	0.033	333	10	1000	26.5	16.5	7.0	22.5	NA	0.8	15.0	11000	1	
HPMPB393K3ALHXL9	0.039	393	10	1000	26.0	17.0	8.5	22.5	NA	0.8	15.0	11000	1	
HPMPB473K3ALHXL9	0.047	473	10	1000	26.5	19.0	10.0	22.5	NA	0.8	15.0	11000	1	
HPMPB563K3ALHXL9	0.056	563	10	1000	26.5	19.0	10.0	22.5	NA	0.8	15.0	11000	1	
HPMPB683K3ALHXL9	0.068	683	10	1000	26.0	20.0	11.0	22.5	NA	0.8	15.0	11000	1	
HPMPB473K3ALKXL9	0.047	473	10	1000	32.0	18.0	9.0	27.5	NA	0.8	15.0	11000	1	
HPMPB563K3ALKXL9	0.056	563	10	1000	32.0	18.0	9.0	27.5	NA	0.8	15.0	11000	1	
HPMPB683K3ALKXL9	0.068	683	10	1000	32.0	18.0	9.0	27.5	NA	0.8	15.0	11000	1	
HPMPB823K3ALKXL8	0.082	823	10	1000	32.0	18.0	9.0	27.5	NA	0.8	15.0	11000	1	
HPMPB823K3ALKXL9	0.082	823	10	1000	32.0	20.0	11.0	27.5	NA	0.8	15.0	11000	1	
HPMPB104K3ALKXL9	0.1	104	10	1000	32.0	20.0	11.0	27.5	NA	0.8	15.0	11000	1	
HPMPB124K3ALKXL8	0.12	124	10	1000	32.0	20.0	11.0	27.5	NA	0.8	15.0	11000	1	

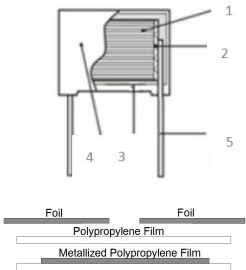
奇彥產品型號 HITANO P/N	容值 CAP. (uF)	標志 Symbol	公差 Tol. ±%	電壓 Vr(DC)	尺寸毫米為單位 Dimensions in mm							dv/dt V/us	圖示 Fig.	備 注 Notes
					寬 W ±0.5	高 H ±0.5	厚 T ±0.5	腳距 P ±0.5	腳距 S ±0.5	線徑φd ±0.05	腳長 L Min			
HPMPB124K3ALKXL9	0.12	124	10	1000	31.5	21.6	13.0	27.5	NA	0.8	15.0	11000	1	
HPMPB154K3ALKXL9	0.15	154	10	1000	31.5	21.6	13.0	27.5	NA	0.8	15.0	11000	1	
HPMPB184K3ALKXL9	0.18	184	10	1000	31.0	25.0	14.0	27.5	NA	0.8	15.0	11000	1	
HPMPB224K3ALKXL9	0.22	224	10	1000	32.0	28.0	14.0	27.5	NA	0.8	15.0	11000	1	
HPMPB274K3ALKXL9	0.27	274	10	1000	31.0	33.0	18.0	27.5	NA	0.8	15.0	11000	1	
HPMPB334K3ALKXL9	0.33	334	10	1000	31.0	33.0	18.0	27.5	NA	0.8	15.0	11000	1	
HPMPB474K3ALKXL9	0.47	474	10	1000	32.0	37.0	22.0	27.5	NA	0.8	15.0	11000	1	
HPMPB124K3ALQXL9	0.12	124	10	1000	41.5	22.0	12.0	37.5	NA	1.0	15.0	4500	1	
HPMPB154K3ALQXL9	0.15	154	10	1000	41.5	22.0	12.0	37.5	NA	1.0	15.0	4500	1	
HPMPB184K3ALQXL9	0.18	184	10	1000	41.5	22.0	12.0	37.5	NA	1.0	15.0	4500	1	
HPMPB224K3ALQXL9	0.22	224	10	1000	41.0	24.0	13.0	37.5	NA	1.0	15.0	4500	1	
HPMPB274K3ALQXL8	0.27	274	10	1000	41.0	24.0	13.0	37.5	NA	1.0	15.0	4500	1	
HPMPB274K3ALQXL9	0.27	274	10	1000	41.0	28.5	16.0	37.5	NA	1.0	15.0	4500	1	
HPMPB334K3ALQXL9	0.33	334	10	1000	41.0	28.5	16.0	37.5	NA	1.0	15.0	4500	1	
HPMPB394K3ALQXL9	0.39	394	10	1000	41.0	28.5	16.0	37.5	NA	1.0	15.0	4500	1	
HPMPB474K3ALQXL9	0.47	474	10	1000	42.0	33.5	18.5	37.5	NA	1.0	15.0	4500	1	
HPMPB564K3ALQXL9	0.56	564	10	1000	42.0	33.5	18.5	37.5	NA	1.0	15.0	4500	1	
HPMPB684K3ALQXL9	0.68	684	10	1000	42.0	40.0	20.0	37.5	NA	1.0	15.0	4500	1	
HPMPB824K3ALQXL9	0.82	824	10	1000	42.0	40.0	20.0	37.5	NA	1.0	15.0	4500	1	
HPMPB105K3ALQXL9	1.0	105	10	1000	42.5	44.0	24.0	37.5	NA	1.0	15.0	4500	1	
HPMPB125K3ALQXL9	1.2	125	10	1000	41.5	45.0	30.0	37.5	NA	1.0	15.0	4500	1	
HPMPB155K3ALQXL9	1.5	155	10	1000	41.5	45.0	30.0	37.5	NA	1.0	15.0	4500	1	
HPMPB222K3BLEXL9	0.0022	222	10	1250	18.0	11.0	5.0	15.0	NA	0.6	15.0	30000	1	
HPMPB272K3BLEXL9	0.0027	272	10	1250	18.0	11.0	5.0	15.0	NA	0.6	15.0	30000	1	
HPMPB332K3BLEXL9	0.0033	332	10	1250	18.0	12.0	6.0	15.0	NA	0.8	15.0	30000	1	
HPMPB392K3BLEXL9	0.0039	392	10	1250	18.0	12.0	6.0	15.0	NA	0.8	15.0	30000	1	
HPMPB472K3BLEXL9	0.0047	472	10	1250	18.0	13.5	7.5	15.0	NA	0.8	15.0	30000	1	
HPMPB562K3BLEXL9	0.0056	562	10	1250	18.0	13.5	7.5	15.0	NA	0.8	15.0	30000	1	
HPMPB682K3BLEXL9	0.0068	682	10	1250	18.0	14.5	8.5	15.0	NA	0.8	15.0	30000	1	
HPMPB822K3BLEXL9	0.0082	822	10	1250	18.0	16.0	10.0	15.0	NA	0.8	15.0	30000	1	
HPMPB822K3BLHXL9	0.0082	822	10	1250	26.5	15.0	6.0	22.5	NA	0.8	15.0	11000	1	
HPMPB103K3BLHXL9	0.01	103	10	1250	26.5	15.0	6.0	22.5	NA	0.8	15.0	11000	1	
HPMPB123K3BLHXL9	0.012	123	10	1250	26.5	15.0	6.0	22.5	NA	0.8	15.0	11000	1	
HPMPB153K3BLHXL9	0.015	153	10	1250	26.5	16.5	7.0	22.5	NA	0.8	15.0	11000	1	
HPMPB183K3BLHXL9	0.018	183	10	1250	26.5	16.5	7.0	22.5	NA	0.8	15.0	11000	1	
HPMPB223K3BLHXL9	0.022	223	10	1250	26.0	17.0	8.5	22.5	NA	0.8	15.0	11000	1	
HPMPB273K3BLHXL9	0.027	273	10	1250	26.5	19.0	10.0	22.5	NA	0.8	15.0	11000	1	

奇彥產品型號 HITANO P/N	容值 CAP. (uF)	標志 Symbol	公差 Tol. ±%	電壓 Vr(DC)	尺寸毫米為單位 Dimensions in mm							dv/dt V/us	圖示 Fig.	備 注 Notes
					寬 W ±0.5	高 H ±0.5	厚 T ±0.5	腳距 P ±0.5	腳距 S ±0.5	線徑φd ±0.05	腳長 L Min			
HPMPB333K3BLHXL9	0.033	333	10	1250	26.5	19.0	10.0	22.5	NA	0.8	15.0	11000	1	
HPMPB393K3BLKXL9	0.039	393	10	1250	32.0	18.0	9.0	27.5	NA	0.8	15.0	11000	1	
HPMPB473K3BLKXL9	0.047	473	10	1250	32.0	20.0	11.0	27.5	NA	0.8	15.0	11000	1	
HPMPB563K3BLKXL9	0.056	563	10	1250	32.0	20.0	11.0	27.5	NA	0.8	15.0	11000	1	
HPMPB683K3BLKXL9	0.068	683	10	1250	31.5	21.6	13.0	27.5	NA	0.8	15.0	11000	1	
HPMPB823K3BLKXL9	0.082	823	10	1250	31.0	25.0	14.0	27.5	NA	0.8	15.0	11000	1	
HPMPB104K3BLKXL9	0.1	104	10	1250	31.0	25.0	14.0	27.5	NA	0.8	15.0	11000	1	
HPMPB124K3BLKXL8	0.12	124	10	1250	32.0	28.0	14.0	27.5	NA	0.8	15.0	11000	1	
HPMPB124K3BLKXL9	0.12	124	10	1250	31.0	33.0	18.0	27.5	NA	0.8	15.0	11000	1	
HPMPB154K3BLKXL9	0.15	154	10	1250	31.0	33.0	18.0	27.5	NA	0.8	15.0	11000	1	
HPMPB184K3BLKXL9	0.18	184	10	1250	31.0	33.0	18.0	27.5	NA	0.8	15.0	11000	1	
HPMPB224K3BLKXL9	0.22	224	10	1250	32.0	37.0	22.0	27.5	NA	0.8	15.0	11000	1	
HPMPB823K3BLQXL9	0.082	823	10	1250	41.5	22.0	12.0	37.5	NA	1.0	15.0	5500	1	
HPMPB104K3BLQXL9	0.1	104	10	1250	41.5	22.0	12.0	37.5	NA	1.0	15.0	5500	1	
HPMPB124K3BLQXL8	0.12	124	10	1250	41.5	22.0	12.0	37.5	NA	1.0	15.0	5500	1	
HPMPB124K3BLQXL9	0.12	124	10	1250	41.0	24.0	13.0	37.5	NA	1.0	15.0	5500	1	
HPMPB154K3BLQXL9	0.15	154	10	1250	41.0	24.0	13.0	37.5	NA	1.0	15.0	5500	1	
HPMPB184K3BLQXL8	0.18	184	10	1250	41.0	24.0	13.0	37.5	NA	1.0	15.0	5500	1	
HPMPB184K3BLQXL9	0.18	184	10	1250	41.0	28.5	16.0	37.5	NA	1.0	15.0	5500	1	
HPMPB224K3BLQXL9	0.22	224	10	1250	41.0	28.5	16.0	37.5	NA	1.0	15.0	5500	1	
HPMPB274K3BLQXL9	0.27	274	10	1250	41.0	28.5	16.0	37.5	NA	1.0	15.0	5500	1	
HPMPB334K3BLQXL9	0.33	334	10	1250	42.0	33.5	18.5	37.5	NA	1.0	15.0	5500	1	
HPMPB394K3BLQXL9	0.39	394	10	1250	42.0	40.0	20.0	37.5	NA	1.0	15.0	5500	1	
HPMPB474K3BLQXL9	0.47	474	10	1250	42.0	40.0	20.0	37.5	NA	1.0	15.0	5500	1	
HPMPB564K3BLQXL9	0.56	564	10	1250	42.0	40.0	20.0	37.5	NA	1.0	15.0	5500	1	
HPMPB684K3BLQXL9	0.68	684	10	1250	42.5	44.0	24.0	37.5	NA	1.0	15.0	5500	1	
HPMPB824K3BLQXL9	0.82	824	10	1250	41.5	45.0	30.0	37.5	NA	1.0	15.0	5500	1	
HPMPB102K3CLEXL9	0.001	102	10	1600	18.0	11.0	5.0	15.0	NA	0.6	15.0	34000	1	
HPMPB122K3CLEXL9	0.0012	122	10	1600	18.0	11.0	5.0	15.0	NA	0.6	15.0	34000	1	
HPMPB152K3CLEXL9	0.0015	152	10	1600	18.0	11.0	5.0	15.0	NA	0.6	15.0	34000	1	
HPMPB182K3CLEXL9	0.0018	182	10	1600	18.0	11.0	5.0	15.0	NA	0.6	15.0	34000	1	
HPMPB222K3CLEXL9	0.0022	222	10	1600	18.0	12.0	6.0	15.0	NA	0.8	15.0	34000	1	
HPMPB272K3CLEXL9	0.0027	272	10	1600	18.0	12.0	6.0	15.0	NA	0.8	15.0	34000	1	
HPMPB332K3CLEXL9	0.0033	332	10	1600	18.0	13.5	7.5	15.0	NA	0.8	15.0	34000	1	
HPMPB392K3CLEXL9	0.0039	392	10	1600	18.0	13.5	7.5	15.0	NA	0.8	15.0	34000	1	
HPMPB472K3CLEXL9	0.0047	472	10	1600	18.0	14.5	8.5	15.0	NA	0.8	15.0	34000	1	
HPMPB562K3CLEXL9	0.0056	562	10	1600	18.0	16.0	10.0	15.0	NA	0.8	15.0	34000	1	

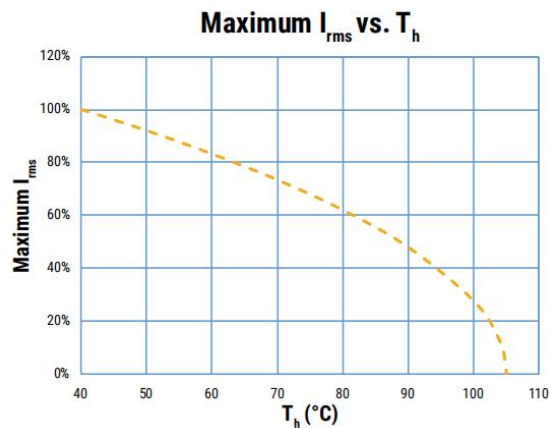
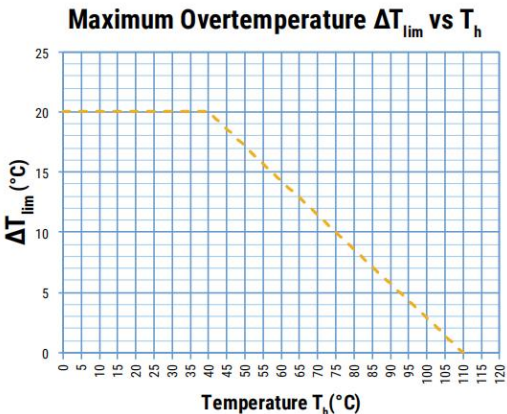
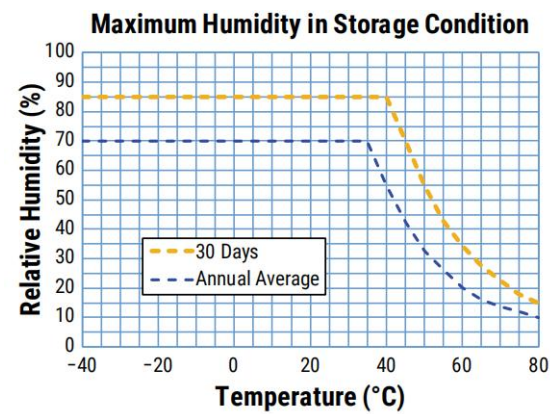
奇彥產品型號 HITANO P/N	容值 CAP. (uF)	標志 Symbol	公差 Tol. ±%	電壓 Vr(DC)	尺寸毫米為單位 Dimensions in mm							dv/dt V/us	圖示 Fig.	備 注 Notes
					寬 W ±0.5	高 H ±0.5	厚 T ±0.5	腳距 P ±0.5	腳距 S ±0.5	線徑φd ±0.05	腳長 L Min			
HPMPB682K3CLEXL9	0.0068	682	10	1600	18.0	16.0	10.0	15.0	NA	0.8	15.0	34000	1	
HPMPB562K3CLHXL9	0.0056	562	10	1600	26.5	15.0	6.0	22.5	NA	0.8	15.0	11000	1	
HPMPB682K3CLHXL9	0.0068	682	10	1600	26.5	15.0	6.0	22.5	NA	0.8	15.0	11000	1	
HPMPB822K3CLHXL9	0.0082	822	10	1600	26.5	15.0	6.0	22.5	NA	0.8	15.0	11000	1	
HPMPB103K3CLHXL9	0.01	103	10	1600	26.5	15.0	6.0	22.5	NA	0.8	15.0	11000	1	
HPMPB123K3CLHXL9	0.012	123	10	1600	26.5	16.5	7.0	22.5	NA	0.8	15.0	11000	1	
HPMPB153K3CLHXL9	0.015	153	10	1600	26.0	17.0	8.5	22.5	NA	0.8	15.0	11000	1	
HPMPB183K3CLHXL9	0.018	183	10	1600	26.0	17.0	8.5	22.5	NA	0.8	15.0	11000	1	
HPMPB223K3CLHXL9	0.022	223	10	1600	26.5	19.0	10.0	22.5	NA	0.8	15.0	11000	1	
HPMPB273K3CLKXL9	0.027	273	10	1600	32.0	18.0	9.0	27.5	NA	0.8	15.0	11000	1	
HPMPB333K3CLKXL9	0.033	333	10	1600	32.0	20.0	11.0	27.5	NA	0.8	15.0	11000	1	
HPMPB393K3CLKXL9	0.039	393	10	1600	32.0	20.0	11.0	27.5	NA	0.8	15.0	11000	1	
HPMPB473K3CLKXL9	0.047	473	10	1600	31.5	21.6	13.0	27.5	NA	0.8	15.0	11000	1	
HPMPB563K3CLKXL9	0.056	563	10	1600	31.5	21.6	13.0	27.5	NA	0.8	15.0	11000	1	
HPMPB683K3CLKXL9	0.068	683	10	1600	32.0	28.0	14.0	27.5	NA	0.8	15.0	11000	1	
HPMPB823K3CLKXL9	0.082	823	10	1600	32.0	28.0	14.0	27.5	NA	0.8	15.0	11000	1	
HPMPB104K3CLKXL9	0.1	104	10	1600	31.0	33.0	18.0	27.5	NA	0.8	15.0	11000	1	
HPMPB124K3CLKXL9	0.12	124	10	1600	31.0	33.0	18.0	27.5	NA	0.8	15.0	11000	1	
HPMPB154K3CLKXL9	0.15	154	10	1600	32.0	37.0	22.0	27.5	NA	0.8	15.0	11000	1	
HPMPB184K3CLKXL9	0.18	184	10	1600	32.0	37.0	22.0	27.5	NA	0.8	15.0	11000	1	
HPMPB333K3CLQXL9	0.033	333	10	1600	41.5	22.0	12.0	37.5	NA	1.0	15.0	6500	1	
HPMPB393K3CLQXL9	0.039	393	10	1600	41.5	22.0	12.0	37.5	NA	1.0	15.0	6500	1	
HPMPB473K3CLQXL9	0.047	473	10	1600	41.5	22.0	12.0	37.5	NA	1.0	15.0	6500	1	
HPMPB563K3CLQXL9	0.056	563	10	1600	41.5	22.0	12.0	37.5	NA	1.0	15.0	6500	1	
HPMPB683K3CLQXL9	0.068	683	10	1600	41.5	22.0	12.0	37.5	NA	1.0	15.0	6500	1	
HPMPB823K3CLQXL9	0.082	823	10	1600	41.5	22.0	12.0	37.5	NA	1.0	15.0	6500	1	
HPMPB104K3CLQXL9	0.1	104	10	1600	41.0	24.0	13.0	37.5	NA	1.0	15.0	6500	1	
HPMPB124K3CLQXL9	0.12	124	10	1600	41.0	28.5	16.0	37.5	NA	1.0	15.0	6500	1	
HPMPB154K3CLQXL9	0.15	154	10	1600	41.0	28.5	16.0	37.5	NA	1.0	15.0	6500	1	
HPMPB184K3CLQXL9	0.18	184	10	1600	41.0	28.5	16.0	37.5	NA	1.0	15.0	6500	1	
HPMPB224K3CLQXL9	0.22	224	10	1600	42.0	33.5	18.5	37.5	NA	1.0	15.0	6500	1	
HPMPB274K3CLQXL9	0.27	274	10	1600	42.0	40.0	20.0	37.5	NA	1.0	15.0	6500	1	
HPMPB334K3CLQXL9	0.33	334	10	1600	42.0	40.0	20.0	37.5	NA	1.0	15.0	6500	1	
HPMPB394K3CLQXL9	0.39	394	10	1600	42.5	44.0	24.0	37.5	NA	1.0	15.0	6500	1	
HPMPB474K3CLQXL8	0.47	474	10	1600	42.5	44.0	24.0	37.5	NA	1.0	15.0	6500	1	
HPMPB474K3CLQXL9	0.47	474	10	1600	41.5	45.0	30.0	37.5	NA	1.0	15.0	6500	1	
HPMPB564K3CLQXL8	0.56	564	10	1600	42.5	44.0	24.0	37.5	NA	1.0	15.0	6500	1	

奇彥產品型號 HITANO P/N	容值 CAP. (uF)	標志 Symbol	公差 Tol. ±%	電壓 Vr(DC)	尺寸毫米為單位 Dimensions in mm							dv/dt V/us	圖示 Fig.	備 注 Notes
					寬 W ±0.5	高 H ±0.5	厚 T ±0.5	腳距 P ±0.5	腳距 S ±0.5	線徑φd ±0.05	腳長 L Min			
HPMPB564K3CLQXL9	0.56	564	10	1600	41.5	45.0	30.0	37.5	NA	1.0	15.0	6500	1	
HPMPB101K3DLEXL9	0.0001	101	10	2000	18.0	11.0	5.0	15.0	NA	0.6	15.0	54000	1	
HPMPB151K3DLEXL9	0.00015	151	10	2000	18.0	11.0	5.0	15.0	NA	0.6	15.0	54000	1	
HPMPB221K3DLEXL9	0.00022	221	10	2000	18.0	11.0	5.0	15.0	NA	0.6	15.0	54000	1	
HPMPB331K3DLEXL9	0.00033	331	10	2000	18.0	11.0	5.0	15.0	NA	0.6	15.0	54000	1	
HPMPB471K3DLEXL9	0.00047	471	10	2000	18.0	11.0	5.0	15.0	NA	0.6	15.0	54000	1	
HPMPB681K3DLEXL9	0.00068	681	10	2000	18.0	11.0	5.0	15.0	NA	0.6	15.0	54000	1	
HPMPB102K3DLEXL9	0.001	102	10	2000	18.0	12.0	6.0	15.0	NA	0.8	15.0	54000	1	
HPMPB122K3DLEXL9	0.0012	122	10	2000	18.0	12.0	6.0	15.0	NA	0.8	15.0	54000	1	
HPMPB152K3DLEXL9	0.0015	152	10	2000	18.0	13.5	7.5	15.0	NA	0.8	15.0	54000	1	
HPMPB182K3DLEXL9	0.0018	182	10	2000	18.0	13.5	7.5	15.0	NA	0.8	15.0	54000	1	
HPMPB222K3DLEXL9	0.0022	222	10	2000	18.0	14.5	8.5	15.0	NA	0.8	15.0	54000	1	
HPMPB272K3DLEXL9	0.0027	272	10	2000	18.0	16.0	10.0	15.0	NA	0.8	15.0	54000	1	
HPMPB272K3DLHXL9	0.0027	272	10	2000	26.5	15.0	6.0	22.5	NA	0.8	15.0	11000	1	
HPMPB332K3DLHXL9	0.0033	332	10	2000	26.5	15.0	6.0	22.5	NA	0.8	15.0	11000	1	
HPMPB392K3DLHXL9	0.0039	392	10	2000	26.5	15.0	6.0	22.5	NA	0.8	15.0	11000	1	
HPMPB472K3DLHXL9	0.0047	472	10	2000	26.5	16.5	7.0	22.5	NA	0.8	15.0	11000	1	
HPMPB562K3DLHXL9	0.0056	562	10	2000	26.5	16.5	7.0	22.5	NA	0.8	15.0	11000	1	
HPMPB682K3DLHXL9	0.0068	682	10	2000	26.0	17.0	8.5	22.5	NA	0.8	15.0	11000	1	
HPMPB822K3DLHXL9	0.0082	822	10	2000	26.0	17.0	8.5	22.5	NA	0.8	15.0	11000	1	
HPMPB103K3DLHXL9	0.01	103	10	2000	26.5	19.0	10.0	22.5	NA	0.8	15.0	11000	1	
HPMPB123K3DLHXL9	0.012	123	10	2000	26.0	20.0	11.0	22.5	NA	0.8	15.0	11000	1	
HPMPB103K3DLKXL9	0.01	103	10	2000	32.0	18.0	9.0	27.5	NA	0.8	15.0	11000	1	
HPMPB123K3DLKXL9	0.012	123	10	2000	32.0	18.0	9.0	27.5	NA	0.8	15.0	11000	1	
HPMPB153K3DLKXL9	0.015	153	10	2000	32.0	20.0	11.0	27.5	NA	0.8	15.0	11000	1	
HPMPB183K3DLKXL9	0.018	183	10	2000	31.5	21.6	13.0	27.5	NA	0.8	15.0	11000	1	
HPMPB223K3DLKXL9	0.022	223	10	2000	31.5	21.6	13.0	27.5	NA	0.8	15.0	11000	1	
HPMPB273K3DLKXL9	0.027	273	10	2000	32.0	28.0	14.0	27.5	NA	0.8	15.0	11000	1	
HPMPB333K3DLKXL8	0.033	333	10	2000	32.0	28.0	14.0	27.5	NA	0.8	15.0	11000	1	
HPMPB333K3DLKXL9	0.033	333	10	2000	31.0	33.0	18.0	27.5	NA	0.8	15.0	11000	1	
HPMPB393K3DLKXL9	0.039	393	10	2000	31.0	33.0	18.0	27.5	NA	0.8	15.0	11000	1	
HPMPB473K3DLKXL9	0.047	473	10	2000	31.0	33.0	18.0	27.5	NA	0.8	15.0	11000	1	
HPMPB563K3DLKXL9	0.056	563	10	2000	32.0	37.0	22.0	27.5	NA	0.8	15.0	11000	1	
HPMPB683K3DLKXL9	0.068	683	10	2000	32.0	37.0	22.0	27.5	NA	0.8	15.0	11000	1	
HPMPB183K3DLQXL9	0.018	183	10	2000	41.5	22.0	12.0	37.5	NA	1.0	15.0	9000	1	
HPMPB223K3DLQXL9	0.022	223	10	2000	41.5	22.0	12.0	37.5	NA	1.0	15.0	9000	1	
HPMPB273K3DLQXL9	0.027	273	10	2000	41.5	22.0	12.0	37.5	NA	1.0	15.0	9000	1	

Dielectric	Polypropylene film								
Plates	Metal foil for 1 section, metal foil + metallized film for 2 sections								
Winding	Non-inductive type								
Leads	Tinned wire								
Protection	Plastic case, thermosetting resin filled. Box material is solvent resistant and flame retardant according to UL94.								
Related Documents	IEC 60384–13								
Sections	1				2				
Voltage Range (VDC)	100	160	250	400	630	1,000	1,250	1,600	2,000
Voltage Range (VAC)	63	90	125	160	300	400	450	450	500
Capacitance Range (μF)	0.047 – 0.15	0.033 – 0.1	0.015 – 0.047	0.01 – 0.047	0.01 – 2.2	0.0033 – 1.5	0.0022 – 0.82	0.001 – 0.56	0.0001 – 0.22
Capacitance Values	E6/E12 series (IEC 60063) measured at 1kHz and +20 ±1°C								
Capacitance Tolerance	±5%, ±10%, ±2.5% only for 2 sections								
Category Temperature Range	–55°C to +105°C								
Rated Temperature TR	+85°C								
Voltage Derating	Above +85°C DC and AC voltage derating is 1.25%/°C								
Climatic Category	55/105/56 IEC 60068–1								
Storage Conditions	Storage time: ≤ 24 months from the date marked on the label package								
	Average relative humidity per year ≤ 70%								
	RH ≤ 85% for 30 days randomly distributed throughout the year								
	Dew is absent								
	Temperature: –40 to 80°C (see "Maximum Humidity in Storage Conditions" graph above)								
Test Voltage	2.5 x VR VDC for 2 seconds (between terminations) at +25°C ±5°C (1 section) 2 x VR VDC for 2 seconds (between terminations) at +25°C ±5°C (2 sections)								
Capacitance Drift	Maximum 0.5% after a 2 year storage period at a temperature of +10°C to +40°C and a relative humidity of 40% to 60%								
Maximum Pulse Steepness	dV/dt according to Table 1. For working voltages lower than rated voltage (V < VR), the specified dV/dt can be multiplied by the factor VR/V.								
Temperature Coefficient	–(150 ±70) ppm/°C at 1 kHz								
Self Inductance (Lead Length ~ 2 mm)	Lead Spacing (mm)	15			22.5		27.5		37.5
	L (nH) ≈	10			16		18		20
	Maximum 1 nH per 1 mm lead and capacitor length.								
Dissipation Factor tanδ	Measured at 25°C ±5°C								
	Frequency	C ≤ 0.1 μF			0.1 μF < C ≤ 1 μF		C > 1 μF		
	1 kHz	0.03%			0.03%		0.03%		
	10 kHz	0.04%			0.06%		–		
	100 kHz	0.10%			–		–		
Insulation Resistance	Measured at +25°C, 100 VDC 60 seconds								
	Minimum Values Between Terminals								
	C ≤ 0.33 μF				C > 0.33 μF				
	≥ 100,000 MΩ (≥ 500,000 MΩ)*				≥ 30,000 MΩ • μF (≥ 150,000 MΩ • μF)*				

CONSTRUCTION			
1	DIELECTRIC	Metallized and plain polypropylene film / foil	
2	METAL SPRAY	Special Solder	
3	EPOXY RESIN	UL 94V-0	
4	PLASTIC CASE	UL 94V-0	
5	LEAD WIRE	LEAD WIRE DIAMETER 0.6/0.8/1.0mm	
MARKING			範例 example CK PMP 3 103K1000 M
TYPE OR MATERIAL		“PMP” stands for “PMP” type.	
NOMINAL CAPACITANCE		In EIA 3-digit code.(Reference Product code comparative table)	
CAPACITANCE TOLERANCE		In EIA 1- letter code.(Reference Product code comparative table)	
RATED VOLTAGE		in VDC rating, unless otherwise indicated.	
DATE CODE		K	

* Typical value



T_h is the maximum ambient temperature surrounding the capacitor or hottest contact point (e.g. tracks), whichever is higher, in the worst operation conditions in °C

Qualification

Automotive Grade products meet or exceed the requirements outlined by the Automotive Electronics Council. Details regarding test methods and conditions are referenced in document AEC – Q200, Stress Test Qualification for Passive Components. For additional information regarding the Automotive Electronics Council and AEC – Q200.

Regulation in usage - 使用規則

1 Soldering suggestions - 焊接的建議

When soldering a capacitor, heat in soldering is conducted to the element of the capacitor from wire lead and an enclosure, and hence it should be noted that soldering under high temperature and a long period may cause deterioration of breakdown of capacitors. characteristic or Be sure to solder within the following temperature condition range.

當焊接電容器時, 焊錫熱會通過引線端子高溫 and 封裝層傳遞到電容器素子, 因此必須注意高溫 and 長時間焊接引起的電容器特性衰減 or 損壞, 請確認焊錫在以下溫度範圍內。

T_S : Capacitor body maximum temperature at wave soldering

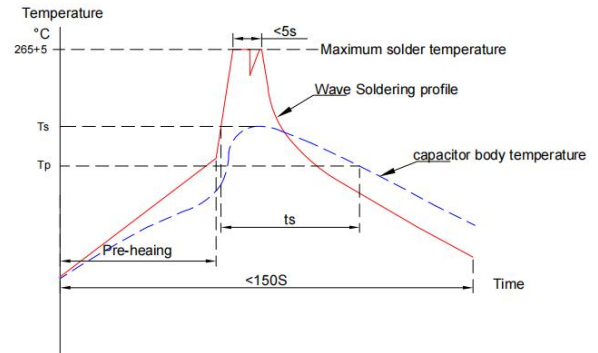
電容器本體最高波峰焊溫度

T_P : Capacitor body maximum temperature at pre-heating

電容器本體最高預熱溫度

Body temperature should follow the description below:

電容器本體溫度應該符合以下描述



Polypropylene film capacitor 聚丙烯薄膜電容器

During pre-heating: $T_P \leq 110^\circ\text{C}$

During soldering: $T_S \leq 120^\circ\text{C}$, $t_s \leq 45\text{s}$

加熱溫度: $T_P \leq 110^\circ\text{C}$

焊接溫度: $T_S \leq 120^\circ\text{C}$, $t_s \leq 45\text{s}$

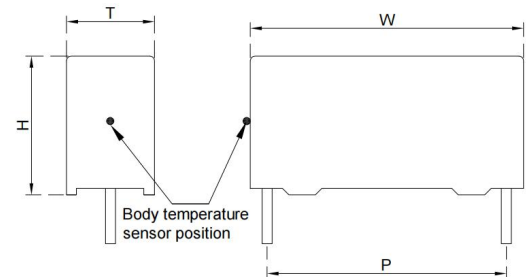
Polyester film capacitor 聚酯薄膜電容器

During pre-heating: $T_P \leq 125^\circ\text{C}$

During soldering: $T_S \leq 160^\circ\text{C}$, $t_s \leq 45\text{s}$

加熱溫度: $T_P \leq 125^\circ\text{C}$

焊接溫度: $T_S \leq 160^\circ\text{C}$, $t_s \leq 45\text{s}$



- Remark: When the thickness of the finished capacitor $T \leq 5\text{mm}$, please appropriately increase the chain speed, reduce the preheating time and lower the preheating temperature to avoid damage to the capacitor core by heat conduction.

備註: 當電容器成品厚度 $T \leq 5\text{mm}$ 時, 請適當加快鏈速和預熱時間, 降低預熱溫度, 以避免熱傳導致電容芯子受損。

- When SMD components are used together with leaded ones, the film capacitors should not pass into the SMD adhesive curing oven.

The leaded components should be assembled after the SMD curing step.

當SMD元件與引腳式元件一起使用時, 薄膜電容器不應進入SMD粘合劑固化爐。引腳式部件應在SMD固化步驟之後組裝。

- Leaded film capacitors are not suitable for reflow soldering.

引腳式薄膜電容器不適合回流焊

- In order to ensure proper conditions for manual or selective soldering, the body temperature of the capacitor (T_S) must be $\leq 120^\circ\text{C}$.

為了確保手動或選擇性焊接的適當條件, 電容器 (T_S) 的本體溫度必須是 $\leq 120^\circ\text{C}$ 。

- One recommended condition for manual soldering is that the tip of the soldering iron should be $< 360^\circ\text{C}$ and the soldering contact time should be no longer than 3 seconds.

手工焊接的一個推薦條件是烙鐵的頂端應該是 $< 360^\circ\text{C}$, 焊接接觸時間不應超過3秒。

- For uncoated MPE capacitors with lead spacings $\leq 10\text{mm}$ the following measures are recommended:

未塗覆的MPE電容器引線間隔為 $\leq 10\text{mm}$, 建議採取以下措施

1. pre-heating to not more than 110°C in the preheater phase 預熱階段預熱溫度不超過 110°C
2. rapid cooling after soldering 焊後快速冷卻

- If re-work or dipping twice is necessary, it should be done after the capacitor returned to the normal temperature. Suggestion time is 24 hours.

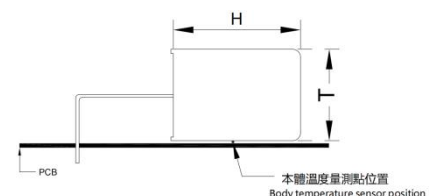
如果需要焊接兩次, 第二次焊接必須等到電容器恢復到常溫。建議時間24小時。

- The body temperature sensor position is defined as the highest temperature point around the capacitor body.

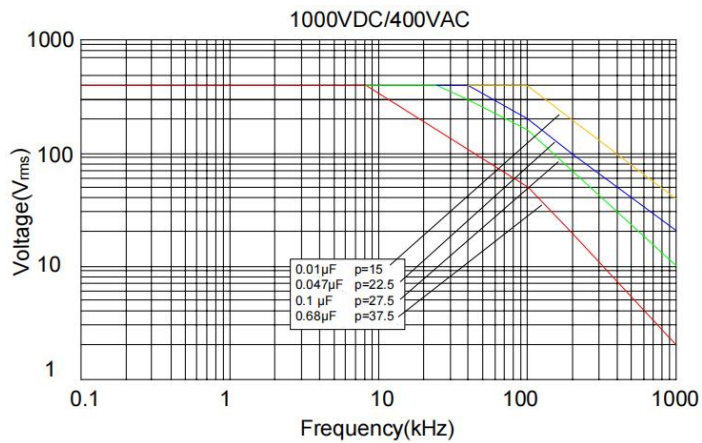
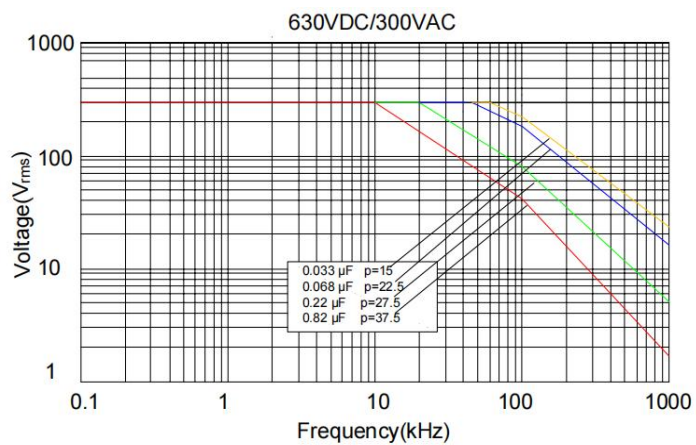
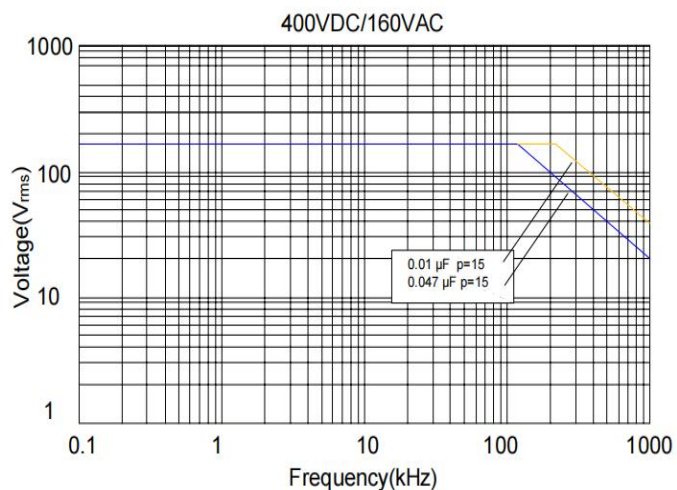
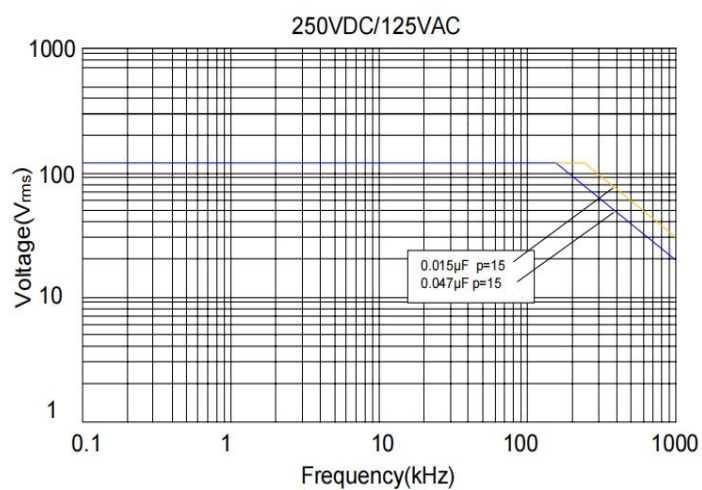
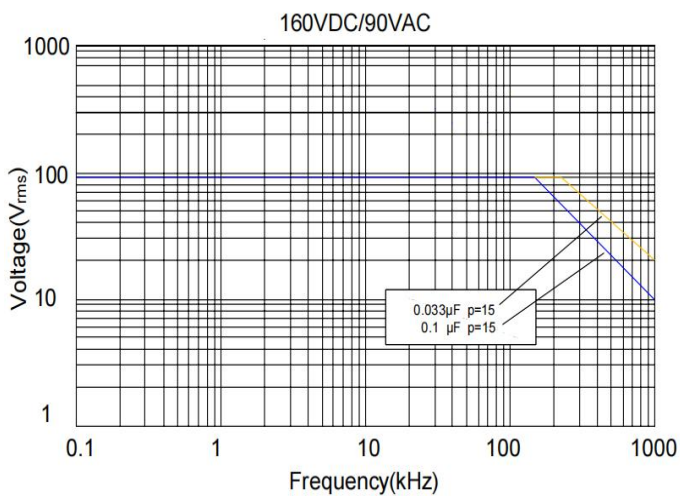
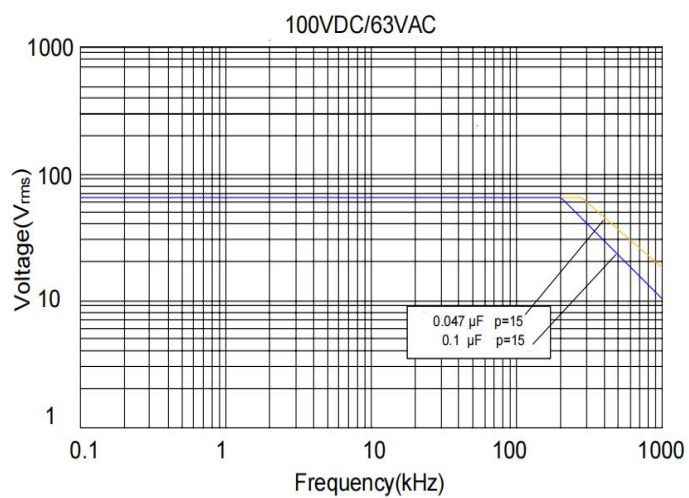
If there is 90 degree bending product, the sensor position shall be between product and PCB.

本體溫度測試點定義為, 電容器本體四周最高溫度點。如有90度折彎平躺產品

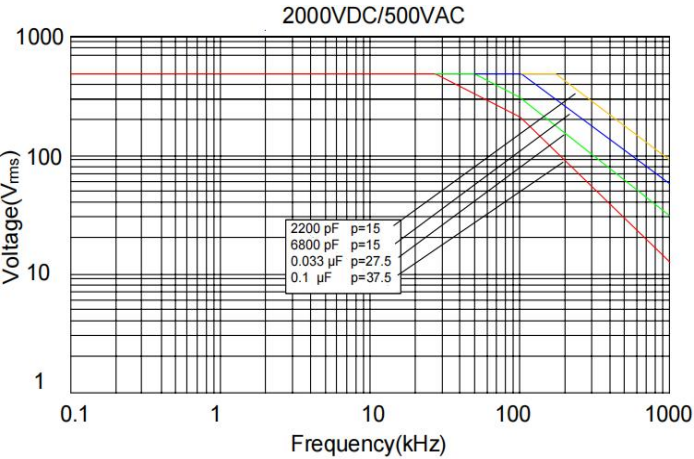
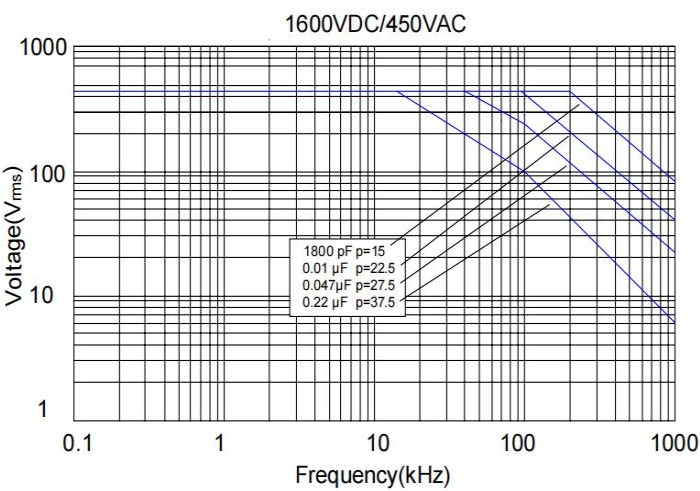
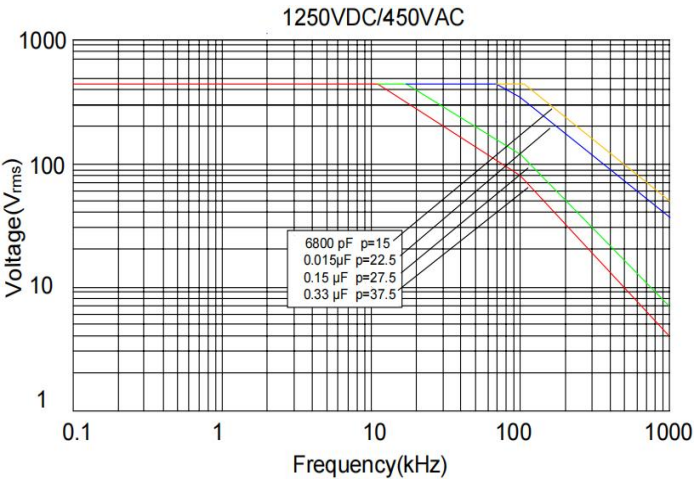
本體溫度測試點應在產品與PCB交接處量測, 如圖所示。



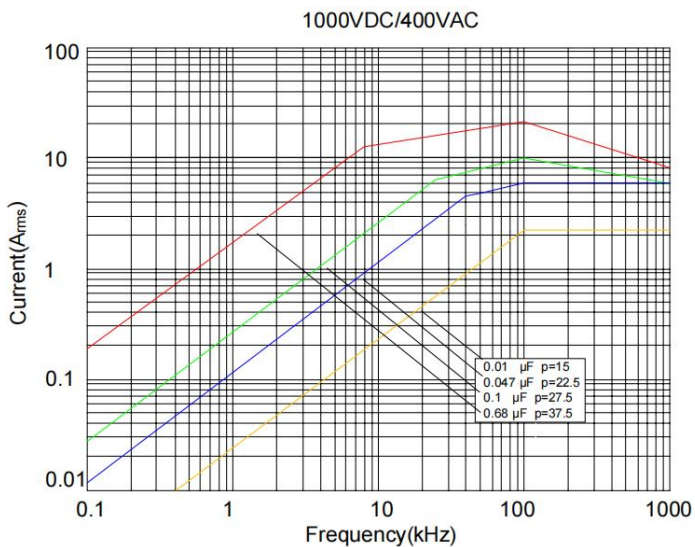
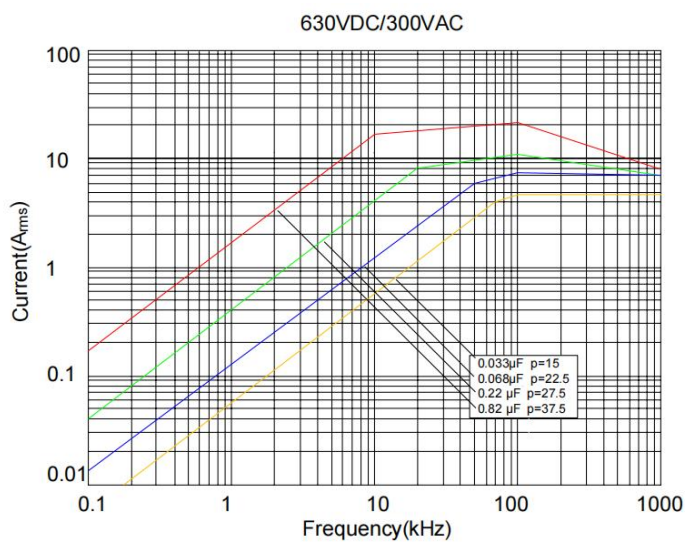
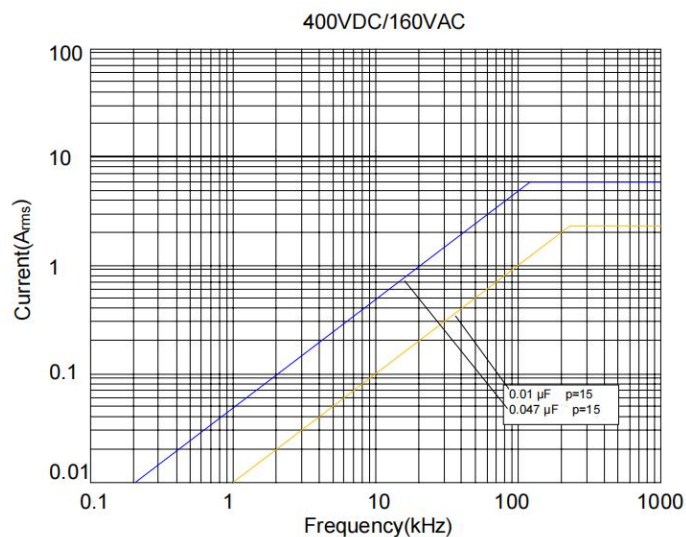
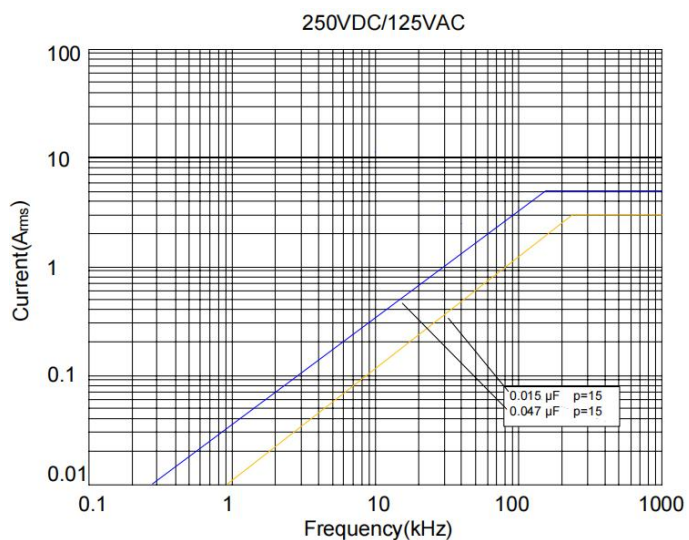
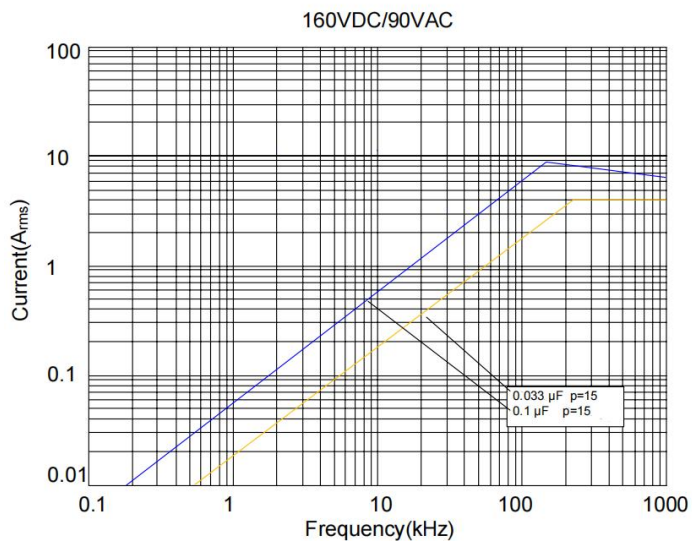
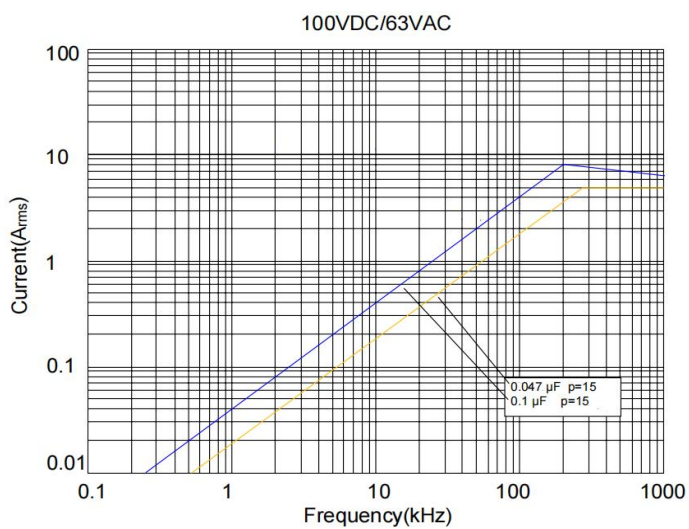
Maximum Voltage (V_{rms}) vs. Frequency (Sinusoidal Waveform/ $T_h \leq 40^\circ C$)



Maximum Voltage (Vrms) vs. Frequency (Sinusoidal Waveform/Th ≤ 40°C)



Maximum Current (I_{rms}) vs. Frequency (Sinusoidal Waveform/Th ≤ 40°C)



Maximum Current (Irms) vs. Frequency (Sinusoidal Waveform/Th ≤ 40°C)

