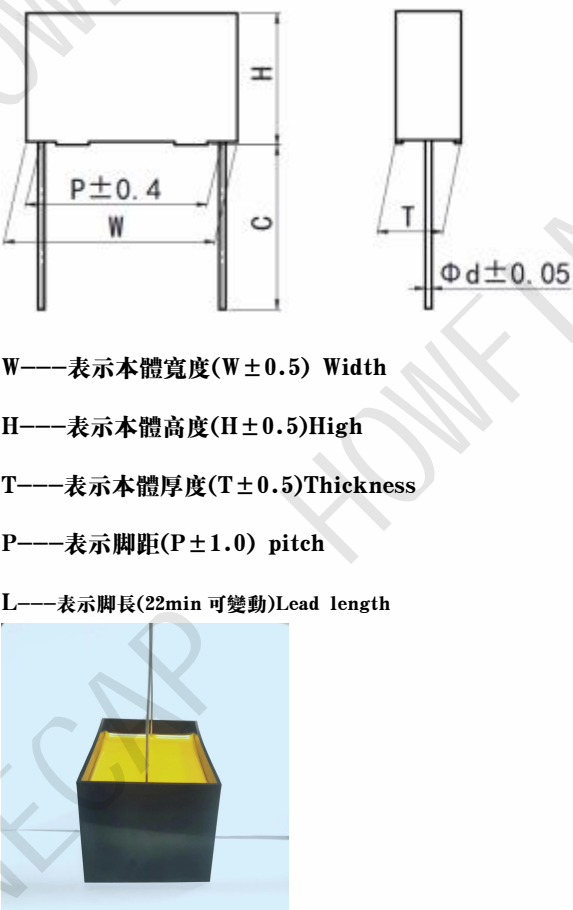


技術要求 Specifications		外型圖 Outline Drawing								
引用標準 Reference Standard	GB10190(IEC60384-14)	 <p>W——表示本體寬度(W±0.5) Width H——表示本體高度(H±0.5)High T——表示本體厚度(T±0.5)Thickness P——表示腳距(P±1.0) pitch L——表示腳長(22min 可變動)Lead length</p>								
工作溫度範圍 Rated Temperature Range	-40°C~+105°C									
表面溫升 (ΔT) Surface overtemperature (ΔT)	電容本體溫升比使用環境溫度≤5°C									
額定電壓 DC Rated Voltage	5KV									
標稱容量 Capacitance	0.6μF									
容量偏差 Capacitance Tolerance	±5%(J)									
耐電壓 Voltage Proof	160% or rated voltage for 5 sec.									
損耗角正切 Dissipation Factor	≤0.001 20°C 1KHz, 輸出水平 1.0V									
絕緣電阻 (20°C 1min) Insulation Resistance	Ur>100V Cr≥0.33 μF IR≥5000 MΩ.uF									
外形尺寸 Dimensions(mm)										
Item	W±0.5	H±0.5	T±0.5	P±1.0	d	L±3				
604K/5KV	75	44.5	50	67.5	1.0	67				
電性能測試 Property test										
No.	1	2	3	4	5	6	7	8	9	10
Co(nF)										
DF										
IR	≥10000MΩ									
TV (DC)	5KVDC									
判定 Result	合格									
備注 Remark	需方已閱讀本協議書內容并確認完全理解其涵義.Purchaser have read this technology confer and confirm that completely understand it.									
客戶確認 簽章										

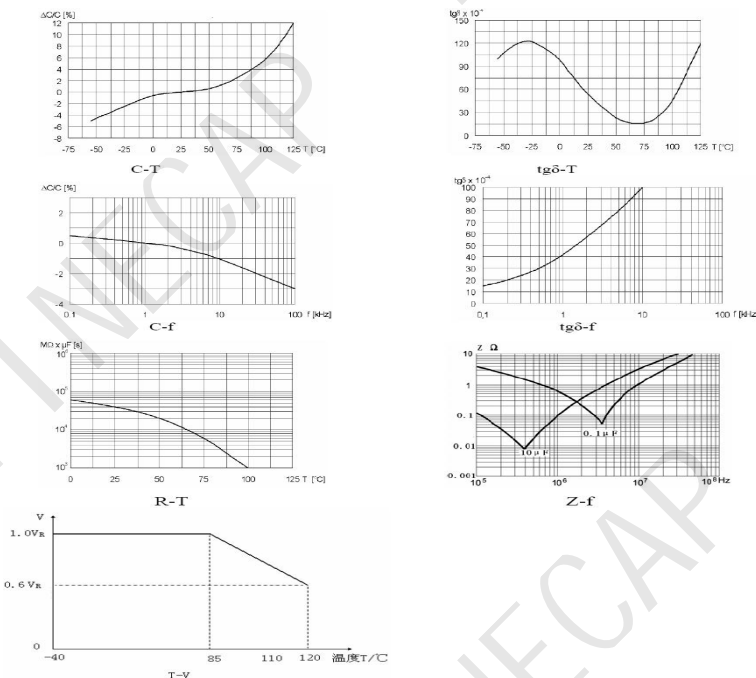
產品規格說明 (PROKUCT SPECIFICATIONS)

NO.	項目 ITEM	說明 DESCRIPTIONS										
1	承認範圍 SCOPE	本規格適用於吳方之要求 This specifications cover the requirements of HOWFINE 雙面金屬化聚丙烯薄膜直流電容器 (MMKP82) Metallized Polypropylene Film DC Capacitor CBB22).										
2	各測量皆于標準大氣下進行 STANDARD ATMOSPHERIC CONDITIONS FOR MAKING MEASUREMENTS											
2.1	環境溫度 AMBIENT TEMPERATURE	15 °C 至 35 °C (如對結果有任何疑問, 該測量環境溫度應為+20 ± 5 °C 之間) 15°C to 35°C (If there is any doubt on the results, the measurements shall be made at +20 ± 5 °C)										
2.2	相對濕度 RELATIVE HUMIDITY(R.H.)	45%至 75% (如對結果有任何疑問, 該測量相對溼度應為 60% to 70%之間) 45%to 75% (If there is any doubt on the results, the measurements shall be made at 60% to 70%)										
2.3	大氣壓力 AIR PRESSURE	86 千帕至 106 千帕之 86 kpa to 106 kpa										
2.4	工作溫度範圍 OPERATING TEMPERATURE RANGE	於-40°C至+105°C間, 電容可在額定電壓下持續運作 -40°C to +105°C for which the capacitor can be operated continuously at rated voltage.										
3	結構 CONSTRUCTION											
3.1	電介質 DIELECTRIC	金屬化聚丙烯薄膜 Metallized Polypropy Film										
3.2	噴金層 METAL SPRAY	特殊焊料 Special Solder										
3.3	導線 LEAD WIRE	鍍錫銅包鋼線 Copper Wire										
3.4	環氧樹脂 EPOXY RESIN	UL 94V-0 耐燃等級										
												
4	打印 MARKING											
4.1	製造商標誌 MANUFACTURER'S SYMBOL	HOWFINE 表示為"吳方電子科技有限公司 HOWFINE CO., LTD"										
4.2	型號或材質 TYPE OR MATERIAL	"MMKP82" 代表 "MMKP" 類型 "MMKP82" stands for "MMKP" type										
4.3	標稱電容量 Specification	電容量代碼表示方法 Capacitance code <table border="1" data-bbox="651 1601 1157 1691"> <thead> <tr> <th>代碼(code)</th> <th>102</th> <th>103</th> <th>104</th> <th>105</th> </tr> </thead> <tbody> <tr> <td>μ F</td> <td>0.001</td> <td>0.01</td> <td>0.1</td> <td>1.0</td> </tr> </tbody> </table>	代碼(code)	102	103	104	105	μ F	0.001	0.01	0.1	1.0
代碼(code)	102	103	104	105								
μ F	0.001	0.01	0.1	1.0								
4.4	容量容許差值 TOLERANCE	J (± 5%), K(±10%), M(±20%)										
4.5	額定電壓 (DC) RATED VOLTAGE	400V, 630V, 1 000V, 1 600V, 2 000V ==										
4.6	電容量範圍 Capacitance range	0.001μF-1.0μF										
4.7	製造番號 MANUFACTURE CODE											

技术要求 Specifications

引用标准 Reference Standard	GB/T 10190 (IEC 60384-16)					
气候类别 Climatic Category	40/105/56					
额定温度 Rated Temperature	85① for U_R (dc); 75① for U_R (ac)					
工作温度 Operating Temperature Range	-40①~105① (+85① to +105①: decreasing factor 1.25% per ① for U_R (dc)) (+75① to +105①: decreasing factor 1.35% per ① for U_R (ac))					
额定电压 Rated Voltage	400V, 630V, 1 000V, 1 600V, 2 000V					
电容量范围 Capacitance Range	0.001 μ F~1.0 μ F					
电容量偏差 Capacitance Tolerance	$\pm 5\%$ (J), $\pm 10\%$ (K), $\pm 20\%$ (M)					
耐电压 Voltage Proof	1.6 U_R (5s)					
损耗角正切 Dissipation Factor	$< 10 \times 10^{-4}$ (20①, 1kHz)					
绝缘电阻 Insulation Resistance	$R > 3 * 10000M\Omega$ $C_N < 0.33\mu F$ $RC_N > 5000s,$ $C_N > 0.33\mu F$ (20①, 100V, 1min)					
最大脉冲爬升速率 Maximum Pulse Rise Time(dV/dt):若实际工作电压 U 比额定电压 U_R 低, 电容器可工作在更高的 dV/dt 场合, 这样 dV/dt 允许值应为右表值乘以 U_R/U 为 If the working voltage(U) is lower than the rated voltage(U_R), the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with U_R/U .	$U_R(V)$	dV/dt(V/ μ s)				
		P=7.5	P=10.0	P=15.0	P=22.5	P=27.5
	250	1200	1000	550	250	200
	400	1800	1500	900	500	300
	630	3200	3200	2500	1500	900
	1000	6000	6000	3300	2100	1000
	1600	-	-	6000	3000	2000
2000	-	-	10000	5000	2200	

典型的電容器特性曲線 Typical graphs



產品尺寸表(PRODUCT SIZE TABLE) mm

630Vdc						630Vdc						1 000Vdc)					
C _N	W	H	T	P	d	C _N	W	H	T	P	d	C _N	W	H	T	P	d
(μF)						(μF)						(μF)					
0.001	10.5	9	4	7.5	0.6	0.039	17.5	12	6	15	0.8	0.001	13	9	4	10	0.6
0.0012	10.5	9	4	7.5	0.6	0.047	17.5	12	6	15	0.8	0.0012	13	9	4	10	0.6
0.0015	10.5	9	4	7.5	0.6	0.056	17.5	13.5	7.5	15	0.8	0.0015	13	9	4	10	0.6
0.0018	10.5	9	4	7.5	0.6	0.068	17.5	14.5	8.5	15	0.8	0.0018	13	9	4	10	0.6
0.0022	10.5	9	4	7.5	0.6	0.082	17.5	14.5	8.5	15	0.8	0.0022	13	9	4	10	0.6
0.0027	10.5	9	4	7.5	0.6	0.1	17.5	16	10	15	0.8	0.0027	13	9	4	10	0.6
0.0033	10.5	9	4	7.5	0.6	0.12	17.5	19	11	15	0.8	0.0033	13	9	4	10	0.6
0.0039	10.5	9	4	7.5	0.6	0.047	26.5	15	6	22.5	0.8	0.0039	13	11	5	10	0.6
0.0047	10.5	9	4	7.5	0.6	0.056	26.5	15	6	22.5	0.8	0.0047	13	11	5	10	0.6
0.0056	10.5	9	4	7.5	0.6	0.068	26.5	15	6	22.5	0.8	0.0056	13	12	6	10	0.6
0.0068	10.5	11	5	7.5	0.6	0.082	26.5	15	6	22.5	0.8	0.0068	13	12	6	10	0.6
0.0082	10.5	11	5	7.5	0.6	0.1	26.5	15	6	22.5	0.8	0.0082	17.5	11	5	15	0.8
0.01	10.5	12	6	7.5	0.6	0.12	26.5	16	7	22.5	0.8	0.01	17.5	11	5	15	0.8
0.012	10.5	12	6	7.5	0.6	0.15	26.5	17	8.5	22.5	0.8	0.012	17.5	11	5	15	0.8
0.0039	13	9	4	10	0.6	0.18	26.5	17	8.5	22.5	0.8	0.015	17.5	11	5	15	0.8
0.0047	13	9	4	10	0.6	0.22	26.5	18.5	10	22.5	0.8	0.018	17.5	13.5	7.5	15	0.8
0.0056	13	9	4	10	0.6	0.27	26.5	22	12	22.5	0.8	0.022	17.5	13.5	7.5	15	0.8
0.0068	13	9	4	10	0.6	0.33	26.5	22	12	22.5	0.8	0.027	17.5	14.5	8.5	15	0.8
0.0082	13	9	4	10	0.6	0.39	26.5	22	12	22.5	0.8	0.033	17.5	14.5	8.5	15	0.8
0.01	13	11	5	10	0.6	0.15	32	18	9	27.5	0.8	0.039	17.5	16	10	15	0.8
0.012	13	11	5	10	0.6	0.18	32	18	9	27.5	0.8	0.047	17.5	19	11	15	0.8
0.015	13	12	6	10	0.6	0.22	32	18	9	27.5	0.8	0.027	26.5	15	6	22.5	0.8
0.018	13	12	6	10	0.6	0.27	32	18	9	27.5	0.8	0.033	26.5	15	6	22.5	0.8
0.01	17.5	11	5	15	0.8	0.33	32	20	11	27.5	0.8	0.039	26.5	15	6	22.5	0.8
0.012	17.5	11	5	15	0.8	0.39	32	20	11	27.5	0.8	0.047	26.5	16	7	22.5	0.8
0.015	17.5	11	5	15	0.8	0.47	32	22	13	27.5	0.8	0.056	26.5	16	7	22.5	0.8
0.018	17.5	11	5	15	0.8	0.56	32	22	13	27.5	0.8	0.068	26.5	17	8.5	22.5	0.8
0.022	17.5	11	5	15	0.8	0.68	32	24.5	15	27.5	0.8	0.082	26.5	18.5	10	22.5	0.8
0.027	17.5	11	5	15	0.8	0.82	32	28	14	27.5	0.8	0.1	26.5	18.5	10	22.5	0.8
0.033	17.5	12	6	15	0.8	1	32	33	18	27.5	0.8	0.12	26.5	22	12	22.5	0.8
						1.2	32	33	18	27.5	0.8	0.15	32	20	11	27.5	0.8
												0.18	32	22	13	27.5	0.8
												0.22	32	22	13	27.5	0.8
												0.27	32	24.5	15	27.5	0.8
												0.33	32	28	14	27.5	0.8
												0.39	32	33	18	27.5	0.8

備注(Note): 特殊規格可按需求定制(Special specifications can be customized according to requirements)