



METALLIZED POLYPROPYLENE FILM CAPACITOR 《 HMP 》

1. RATED VOLTAGE :

250VAC / 450VAC / 630VAC (50 / 60 Hz)

2. CAPACITANCE TOLERANCE :

J (±5%) / K (±10%)

3. DIELECTRIC :

METALLIZED POLYPROPYLENE FILM

4. CAPACITANCE RANGE :

0.1 μ f TO 15 μ f

5. WITHSTAND VOLTAGE :

1.5 \times RATED VOLTAGE FOR 10s.

6. INSULATION RESISTANCE :

BETWEEN ELECTRODES

(1) LESS THAN OR EQUAL TO 0.33 μ f \cong 3×10^4 M Ω

(2) GREATER THAN 0.33 μ f \cong 1×10^4 M Ω . μ f

MEASURED AT 100 \pm 15 VDC / 60sec / 20 $^{\circ}$ C

7. DISSIPATION FACTOR (TAN δ) :

LESS THAN 0.1% (at 1KHz / 20 $^{\circ}$ C)

8. CLIMATE CATEGORY :

IN ACCORDANCE WITH DIN 40040 GPF

G (MINIMUM LIMIT TEMPERATURE) = -40 $^{\circ}$ C

P (MAXIMUM LIMIT TEMPERATURE) = +85 $^{\circ}$ C

F (HUMIDITY CATEGORY) = AVERAGE RELATIVE HUMIDITY \cong 75%

95% FOR 30 DAYS PER YEAR CONTINUOUSLY

85% FOR THE REMAINING DAYS

OCCASIONALLY.

9. HUMIDITY TEST :

CONDITIONS :

TEST TEMPERATURE : 40 \pm 2 $^{\circ}$ C

RELATIVE HUMIDITY : 90 ~ 95%

TEST DURATION : 500 HRS.

TEST CRITERIA :

(1) CAPACITANCE DRIFT : \cong 5% OF THE INITIAL VALUE.

(2) INSULATION RESISTANCE : \cong 50% OF THE SPECIFIED VALUE.

10. VIBRATION RESISTANCE : (JIS 5115)

CONDITIONS :

FREQUENCY CYCLE : 1 MIN PER CYCLE 10 - 55 - 10 Hz.

TEST DURATION : PERPENDICULAR DIRECTION WITH THE SAME METHOD FOR
45 MIN EACH , TOTAL 90 MIN.

TEST CRITERIA :

(1) APPEARANCE : NO VISIBLE DAMAGE.

(2) CONTACT : NORMAL.

11. LIFE TEST :

CONDITIONS :

TEST TEMPERATURE : $85 \pm 3^{\circ}\text{C}$

TEST DURATION : 1,008 HRS.

TEST VOLTAGE : $1.25 \times \text{RATED VOLTAGE}$.

TEST CRITERIA :

(1) VUDUAL INSPECTION : NO DETECTABLE DAMAGE.

(2) CAPACITANCE DRIFT : $\leq 3\%$ OF THE INITIAL VALUE.

(3) INSULATION RESISTANCE : $\geq 50\%$ OF THE SPECIFIED VALUE.

12. SOLDERABILITY :

CONDITIONS :

SOLDER BATH TEMPERATURE : $230 \pm 5^{\circ}\text{C}$

SOLDER MATERIAL : 60% OF TIN + 40% OF LEAD

SOLDER TIME : $5 \pm 0.5 \text{ SEC}$

TEST CRITERIA :

75% OF THE SURFACE TINNING

13. TENSILE STRENGTH OF ELECTRODES :

CONDITIONS :

LOAD FORCE : 1.0KGS

HOLDING TIME : $10 \pm 1 \text{ SEC}$.

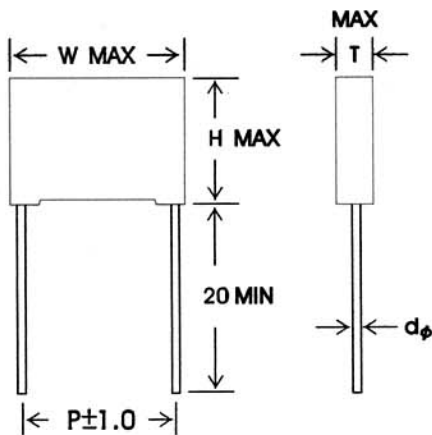
TEST CRITERIA :

NO WIRE BROKEN AND NO DAMAGE OF THE CAPACITOR.

14. MARKING :

CAPACITORS ARE MARKED WITH TYPE IDENTIFICATIONS CAPACITANCE,
CAPACITANCE TOLERANCE, RATED VOLTAGE AND APPROVED
CERTIFICATION MARK.

◎ PITCH DIMENSIONS (m/m)



W	18.0	26.5	31.5	37.0	51.0
P	15.0	22.5	27.5	32.5	46.5
dφ	0.6	0.8	0.8	0.8	0.8

MPP 材料

◎ CASE SIZE OF STANDARD PRODUCTS (W * H * T mm)

CAP (uf)	RATED VOLTAGE		
	250VAC	450VAC	630VAC
0.10		17.0 * 11.0 * 5.5	25.0 * 14.5 * 6.0
0.22		25.0 * 14.5 * 6.0	26.5 * 19.0 * 10.0
0.33	18.0 * 13.5 * 7.5	26.5 * 16.5 * 7.0	31.5 * 20.0 * 11.0
0.47	26.5 * 16.5 * 7.0	26.5 * 17.0 * 8.5	31.5 * 22.5 * 13.0
0.60	26.5 * 16.5 * 7.0	26.5 * 19.0 * 10.0	31.5 * 25.0 * 14.0
0.70	26.5 * 17.0 * 8.5	30.0 * 21.0 * 11.5	37.0 * 24.0 * 13.5
0.82	26.5 * 17.0 * 8.5	31.5 * 22.5 * 13.0	37.0 * 26.5 * 16.0
1.00	26.5 * 17.0 * 8.5	31.5 * 22.5 * 13.0	37.0 * 28.5 * 18.0
1.20	26.5 * 19.0 * 10.0	31.5 * 22.5 * 13.0	37.0 * 28.5 * 18.0
1.50	31.5 * 20.0 * 11.0	37.0 * 24.0 * 13.5	37.0 * 34.0 * 22.0
2.00	31.5 * 22.5 * 13.0	37.0 * 26.5 * 16.0	51.0 * 30.5 * 20.0
2.50	31.5 * 22.5 * 13.0	37.0 * 28.5 * 18.0	
3.00	31.5 * 25.0 * 14.0	37.0 * 31.0 * 20.0	
4.00	37.0 * 26.5 * 16.0	37.0 * 34.0 * 22.0	
5.00	37.0 * 26.5 * 16.0	51.0 * 30.5 * 20.0	
6.00	37.0 * 28.5 * 18.0	51.0 * 32.5 * 22.0	
7.00	37.0 * 31.0 * 20.0		
8.00	51.0 * 27.5 * 17.5		
10.0	51.0 * 30.5 * 20.0		
12.0	51.0 * 32.5 * 22.0		
15.0	51.0 * 32.5 * 22.0		