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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 $\mu$ f TO 20  $\mu$ f

5. WITHSTAND VOLTAGE :

1.5 $\times$ RATED VOLTAGE FOR 10s.

6. INSULATION RESISTANCE :

BETWEEN ELECTRODES

( 1 ) LESS THAN OR EQUAL TO 0.33  $\mu$ f  $\cong$   $3 \times 10^4$  M $\Omega$

( 2 ) GREATER THAN 0.33  $\mu$ f  $\cong$   $1 \times 10^4$  M $\Omega$ .  $\mu$ f

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

7. DISSIPATION FACTOR ( TAN  $\delta$  ) :

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  $\leq$  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 :  $\leq$  5% OF THE INITIAL VALUE.

( 2 ) INSULATION RESISTANCE :  $\geq$  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 :  $10 \pm 1 \text{ SEC}$ .

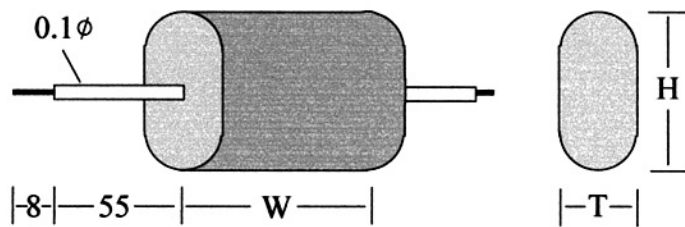
TEST CRITERIA :

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.

© DIMENSIONS (m/m)



| CAP<br>$\mu\text{F}$ | Rated-Voltage<br>(V.AC) | Dimesions(m/m) |    |    |
|----------------------|-------------------------|----------------|----|----|
|                      |                         | W              | H  | T  |
| 10                   | 250                     | 53             | 26 | 16 |
| 20                   | 250                     | 53             | 35 | 24 |