

MAIN INTERFERENCE SUPPRESSION CAPACITOR CLASS X<sub>2</sub>.....MEX--X<sub>2</sub>

**SPECIFICATION:**

1. REFERENCE STANDARDS :

SEV DIN EN 132 400(1994)/IEC 384-14(1993) AND IEC DRAFT 40 (SEC)677  
NEMKO DIN EN 132 400(1994)/IEC 384-14(1993) AND IEC DRAFT 40 (SEC)677  
DEMKO DIN EN 132 400(1994)/IEC 384-14(1993) AND IEC DRAFT 40 (SEC)677  
SEMKO DIN EN 132 400(1994)/IEC 384-14(1993) AND IEC DRAFT 40 (SEC)677  
FIMKO DIN EN 132 400(1994)/IEC 384-14(1993) AND IEC DRAFT 40 (SEC)677  
VDE IEC 60384-14: 1993-07, Table II + A1:1995-06  
EK APPLIED STANDARD: K60384-14 (CAPACITANCE AREA 0.1 to1.0uF)  
CQC THE STANDARDS FOR THE PRODUCTS TO BE TESTED: GB14472-1998  
CAN/CSA—C22.2 NO.1-94(250V AC)  
UL 1414 & UL 1283(250V AC)

USED FOR ACROSS-THE-LINE CAPACITORS,  
AND TENNA-COUPLINE,  
LINE-BY-PASS COMPONENTS,  
RADIO INTERFERENCE SUPPRESSION,  
ELECTRONMAGNETIC INTERFERENCE FILTERS.

2. RATED VOLTAGE:

275V AC 50/ 60 Hz

3. CAPACITANCE RANGE:

0.001 $\mu$ F to 2.2  $\mu$ F

4. CAPACITANCE TOLERANCE:

$\pm$  5% (J)  $\pm$  10% (K)  $\pm$  20% (M)

5. DIELECTRIC:

METALLIZED POLYPROPYLENE FLIM

6. DISSIPATION FACTOR Tan  $\delta$  :

LESS THAN 0.1% AT 1 kHz AND 20°C

7. INSULATION RESISTANCE:

BETWEEN ELECTRODES

(1) LESS THAN OR EQUAL TO  $0.33 \mu F \geq 30,000 M\Omega$

(2) GREATER THAN  $0.33 \mu F \geq 10,000 M\Omega / \mu F$

MEASURED AT 100VDC, 60 SEC. AND 20°C

8. WITHSTAND VOLTAGE :

APPLIED 1183V.DC FOR 60 SEC. OR 2000V.DC FOR 1 SEC.

9. CLIMATE CATEGORY: IN ACCORDANCE WITH DIN40040 GMF

G (MINIMUM LIMIT TEMPERATURE)= -40°C

M (MAXIMUM LIMIT TEMPERATURE)= +100°C

F (HUMIDITY CATEGORY)=AVERAGE RELATIVE HUMIDITY  $\leq 75\%$ , 95% FOR 30 DAYS PER YEAR, CONTINUOUSLY; 85% FOR THE REMAINING DAYS, OCCASIONALLY

10. HUMIDITY TEST:

TEST CONDITION

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

RELATIVE HUMIDITY : 90 TO 95%

TEST DURATION : 500 HRS

TEST CRITERIA

(1) CAPACITANCE DRIFT :  $\leq 5\%$  OF THE INITIAL VALUE

(2) INSULATION RESISTANCE :  $\leq 50\%$  OF SPECIFIED VALUE

11. LIFE TEST:

TEST CONDITION

TEST TEMPERATURE :  $100 \pm 3^\circ C$

TEST VOLTAGE : 343VAC AND 1000VDC 60HZ FOR A PERIOD OF 0.1 SEC. ONCE EACH HOUR

TEST DURATION : 1008 HRS

TEST CRITERIA

(1) CAPACITANCE DRIFT :  $\leq 10\%$  OF THE INITIAL VALUE

(2) INSULATION RESISTANCE :  $\geq 50\%$  OF SPECIFIED VALUE

(3) VISUAL INSPECTION : NO DETECTABLE DAMAGE

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12. SOLDERABILITY:

TEST CONDITIONS

SOLDER BATH TEMPERATURE : 260±5°C

SOLDER : sn/cu=99.3%/0.7%

SOLDER TIME : 3±0.5 SEC

TEST CRITERIA

75% OF THE SURFACE TINNING

13. VIBRATION RESISTANCE: (JIS 5115)

TEST CONDITIONS

FREQUENCY CYCLE : 1 MINUTE PER CYCLE 10-55-10 HZ

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

TEST CRITERIA

(1) APPEARANCE : NO VISUAL DAMAGE

(2) CONTACT : NORMAL

14. TENSILE STRENGTH OF ELECTRODES:

TEST CONDITIONS

LOAD CONDITIONS : 1.0KGS

HOLDING TIME : 10±1 SEC

TEST CRITERIA

NO WIRE BROKEN AND NO DAMAGE OF THE CAPACITOR

15. MARKING:

CAPACITORS ARE MARKED WITH TYPE IDENTIFICATION, CAPACITANCE,  
CAPACITANCE TOLERANCE, VOLTAGE AND APPROVED CERTIFICATION MARK

16. APPROVED BY: SEV: NEMKO: DEMKO; SEMKO; FIMKO; VDE;CQC;CSA;UL;EK

SEV FILE NO. 99,7 70170,01

NEMKO FILE NO. P99100418

DEMKO FILE NO. DK99-01936

SEMKO FILE NO. 9921015/01

FIMKO FILE NO. 208003

VDE FILE NO. 119119

CQC FILE NO. CQC03001003039

UL FILE NO. E186475

CSA FILE NO. LR 109774-1

EK FILE NO. SU03019-5001