

Item no.: 1566329, 1564953, 1566330, 1564955, 1566328, 1564954, 1566331, 1564950, 1570058,  
1564956, 1566332, 1566334, 1564957, 1566337, 1566338, 1571954, 1564958, 1566340, 1566333,  
1566335, 1566336, 1570059, 1571955, 1571269, 1566341, 1564951, 1564952, 1566344, 1571956,  
1566339, 1566342, 1566343, 1570060, 1571957, 1564959, 1566345, 1566346

## Data Sheet

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### Suppression capacitor Radial lead -MKP series - X2 class



(representative picture only for the series)

Item no.: 1566329, 1564953, 1566330, 1564955, 1566328, 1564954, 1566331, 1564950, 1570058, 1564956, 1566332, 1566334, 1564957, 1566337, 1566338, 1571954, 1564958, 1566340, 1566333, 1566335, 1566336, 1570059, 1571955, 1571269, 1566341, 1564951, 1564952, 1566344, 1571956, 1566339, 1566342, 1566343, 1570060, 1571957, 1564959, 1566345, 1566346



## Data Sheet

BN	Tolerance	uF	Voltage	H (mm)	L (mm)	W (mm)	PITCH (mm)	Approval
1566329	±10%	0.01	275VAC	9	13	4	10	VDE
1564953	±10%	0.022	275VAC	9	13	4	10	VDE
1566330	±10%	0.047	275VAC	11	12	5	10	VDE
1564955	±10%	0.1	275VAC	12	13	6	10	VDE
1566328	±10%	0.022	275VAC	11	18	5	15	VDE
1564954	±10%	0.047	275VAC	11	18	5	15	VDE
1566331	±10%	0.068	275VAC	11	18	5	15	VDE
1564950	±10%	0.1	275VAC	11	18	5	15	VDE
1570058	±10%	0.1	275VAC	12	18	6	15	VDE
1564956	±10%	0.15	275VAC	12	18	6	15	VDE
1566332	±10%	0.15	275VAC	14.5	18	8.5	15	VDE
1566334	±10%	0.22	275VAC	13.5	18	7.5	15	VDE
1564957	±10%	0.22	275VAC	14.5	18	8.5	15	VDE
1566337	±10%	0.33	275VAC	14.5	18	8.5	15	VDE

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## Data Sheet

BN	Tolerance	uF	Voltage	H (mm)	L (mm)	W (mm)	PITCH (mm)	Approval
1566338	±10%	0.33	275VAC	6	8	10	15	VDE
1571954	±10%	0.47	275VAC	16	18	10	15	VDE
1564958	±10%	0.47	275VAC	18	19	11	15	VDE
1566340	±10%	0.68	275VAC	16	18	10	15	VDE
1566333	±10%	0.15	275VAC	15	26.5	6	22.5	VDE
1566335	±10%	0.22	275VAC	15	26.5	6	22.5	VDE
1566336	±10%	0.22	275VAC	17	26.5	7	22.5	VDE
1570059	±10%	0.33	275VAC	17	26.5	7	22.5	VDE
1571955	±10%	0.47	275VAC	17	26.5	8.5	22.5	VDE
1571269	±10%	0.47	275VAC	19	26.5	10	22.5	VDE
1566341	±10%	0.68	275VAC	19	26.5	10	22.5	VDE
1564951	±10%	0.82	275VAC	20	32	11	22.5	VDE
1564952	±10%	1	275VAC	20	26.5	11	22.5	VDE
1566344	±10%	1	275VAC	21.5	26.5	12.5	22.5	VDE
1571956	±10%	0.47	275VAC	20	30	11	27.5	VDE
1566339	±10%	0.56	275VAC	20	30	11	27.5	VDE
1566342	±10%	0.68	275VAC	20	30	11	27.5	VDE
1566343	±10%	0.82	275VAC	23	32	13	27.5	VDE
1570060	±10%	1	275VAC	20	32	11	27.5	VDE

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## Data Sheet

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BN	Tolerance	uF	Voltage	H (mm)	L (mm)	W (mm)	PITCH (mm)	Approval
1571957	±10%	1.2	275VAC	23	32	13	27.5	VDE
1564959	±10%	1.5	275VAC	25	32	15	27.5	VDE
1566345	±10%	2	275VAC	30	32	15	27.5	VDE
1566346	±10%	2.2	275VAC	30	32	18	27.5	VDE

## Data Sheet

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### 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 to 1.0uF)  
CQC THE STANDARDS FOR THE PRODUCTS TO BE TESTED: GBIT14472-1998  
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,  
ELECTROMAGNETIC INTERFERENCE FILTERS.

##### 2. RATED VOLTAGE:

275V AC 50/ 60 Hz

##### 3. CAPACITANCE RANGE:

0.001μF to 2.2 μF

##### 4. CAPACITANCE TOLERANCE:

± 5% (J) ± 10% (K) ± 20% (M)

##### 5. DIELECTRIC:

METALLIZED POLYPROPYLENE FLIM

##### 6. DISSIPATION FACTOR Tan δ :

LESS THAN 0.1% AT 1 kHz AND 20°C

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## Data Sheet

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### 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

## Data Sheet

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### 12. SOLDERABILITY:

#### TEST CONDITIONS

SOLDER BATH TEMPERATURE :  $260\pm 5^{\circ}\text{C}$

SOLDER : sn/cu=99.3%/0.7%

SOLDER TIME :  $3\pm 0.5$  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 :  $10\pm 1$  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