

版本	描述	日期
A	补承认书	2020/04/08

# 承認書

Specification for approval

客户  
 CUSTOMER

**嘉立创公司**

品名  
 PART NAME

**MEX-X1 0.22uF/300V AC ±10%(K)**


天泰料号

TENTA Material Number

**MEX224K300A02**

客户料号

CUSTOMER Material Number

承認印 APPROVAL STAMP					
製造商 Manufacturer			客戶 Customer		
					
编制/Edition	检查/Checked	确认/Confirmed	承认/Admit	审核/Auditing	批准/Approved
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# TENTA ELECTRIC INDUSTRIAL CO., LTD.

ACROSS-THE-LINE AND INTERFERENCE SUPPRESSION CAPACITOR CLASS X<sub>1</sub>.....MEX- X<sub>1</sub>

## SPECIFICATION:

1. RATED VOLTAGE:

300V AC 50/ 60 Hz

2. CAPACITANCE RANGE:

0.001 $\mu$ F to 4.7  $\mu$ F

3. CAPACITANCE TOLERANCE:

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

4. DIELECTRIC:

METALLIZED POLYPROPYLENE FLIM

5. DISSIPATION FACTOR Tan  $\delta$ :

Less than 0.1% at 1KHz and 20 $^{\circ}$ C

6. INSULATION RESISTANCE:

BETWEEN ELECTRODES

(1) Less than or equal to 0.33 $\mu$ F  $\cong$  15000 M $\Omega$

(2) Greater than 0.33 $\mu$ F  $\cong$  5000s/ $\mu$ F

Measured after a charging voltage 100 $\pm$ 15VDC for 1 minutes.

7. WITHSTAND VOLTAGE :

Applied 1290VDC for 1 minute or 4000VDC for 1 sec.

8. CLIMATE CATEGORY: IN ACCORDANCE WITH DIN40040 GMF

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

M (MAXIMUM LIMIT TEMPERATURE)= +100 $^{\circ}$ C

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

9. DRY HEAT RESISTANCE : IN ACCORDANCE WITH DIN 40046 SHEET 1 OR IEC 68-2-2 TEST  
BA. CONDITIONS

TEST CONDITION

TEST TEMPERATURE : 100 $\pm$ 2 $^{\circ}$ C

TEST DURATION : 16 HOURS

TEST CRITERIA

- (1) APPEARANCE : NO VISIBLE DAMAGE AND NO LEAKAGE
- (2) WITHSTAND VOLTAGE : 0.66 \* RATED WITHSTAND VOLTAGE 60 SEC.
- (3) CAPACITANCE CHANGE :  $\cong \pm 5\%$  OF THE INITIAL VALUE
- (4) INSULATION RESISTANCE :  $\cong 50\%$  OF SPECIFIED VALUE

10. COLD RESISTANCE : IN ACCORDANCE WITH DIN 40046 SHEET 1 OR IEC 68-2-1  
TEST BA.CONDITIONS

TEST CONDITION

- TEST TEMPERATURE :  $-40 \pm 2^\circ\text{C}$
- TEST DURATION : 2 HOURS

TEST CRITERIA

- (1) APPEARANCE : NO VISIBLE DAMAGE
- (2) WITHSTAND VOLTAGE : 0.66 \* RATED WITHSTAND VOLTAGE 60 SEC.
- (3) CAPACITANCE CHANGE :  $\cong \pm 5\%$  OF THE INITIAL VALUE

11. HUMIDITY TEST:

TEST CONDIDITON

- TEST TEMPER ATURE :  $40 \pm 2^\circ\text{C}$
- RELATIVE HUMIDITY : 90 TO 95%
- TEST DURATION : 500 HRS

TEST CRITERIA

- (1) WITHSTAND VOLTAGE : 0.66 \* RATED WITHSTAND VOLTAGE 60 SEC.
- (2) CAPACITANCE DRIFT :  $\cong 5\%$  OF THE INITIAL VALUE
- (3) DISSIPATION FACTOR :  $\cong 200\%$  OF INITIAL SPECIFIED VALUE
- (4) INSULATION RESISTANCE :  $\cong 50\%$  OF SPECIFIED VALUE

12. LIFE TEST:

TEST CONDITION

- TEST TEMPERATURE :  $100 \pm 3^\circ\text{C}$
- TEST VOLTAGE : 375VAC AND 1000VDC 60HZ FOR A PERIOD OF  
0.1 SEC. ONCE EACH HOUR
- TEST DURATION : 1008 HRS

TEST CRITERIA

- (1) APPEARANCE : NO VISIBLE DAMAGE AND NO LEAKAGE
- (2) WITHSTAND VOLTAGE : 0.66 \* RATED WITHSTAND VOLTAGE 60 SEC.
- (3) CAPACITANCE DRIFT :  $\cong 10\%$  OF THE INITIAL VALUE
- (4) INSULATION RESISTANCE :  $\cong 50\%$  OF SPECIFIED VALUE
- (5) DISSIPATION FACTOR :  $\cong 0.6 * 10(0.06\%)$  OF INCREASED VALUE

13. 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

14. SOLDERING HEAT RESISTANCE : IN ACCORDANCE WITH DIN 40046 SHEET 18 OR IEC 68-2-20 TEST TA. 1 & TB. 1 CONDITIONS

TEST CONDITIONS

SOLDERBATH TEMPERATURE : 260±5°C

SOLDER TIME : 3±1 SEC

CAPACITANCE BODY MAY LIE ON PRINTING CIRCUIT BOARD

TEST CRITERIA

(1) APPEARANCE : NO DAMAGE AND GOOD TINNING

(2) CAPACITANCE CHANGE :  $\cong \pm 3\%$  OF THE INITIAL VALUE

15. VIBRATION RESISTANCE: IN ACCORDANCE WITH DIN 40046 SHEET 8 OR IEC 68-2-6 TEST FC CONDITIONS

TEST CONDITIONS

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

DISPLACEMENT AMPLITUDE : 0.75mm

COMFORMING TO MAX : 10g

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

(3) CAPACITANCE CHANGE :  $\cong \pm 2\%$  OF THE INITIAL VALUE

16. 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

17. MARKING:

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

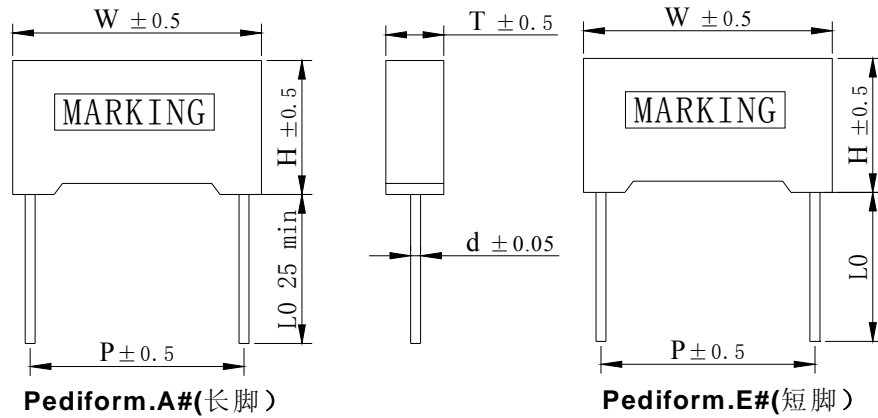
18. APPROVED BY: VDE;ENEC,UL, CQC

VDE FILE NO.123198

ENEC FILE NO.1396

UL FILE NO. E186475

CQC FILE NO. CQC06001015833



(Unit:mm)

<b>Normal Size</b>											
<b>CAP</b>	<b>W</b>	<b>H</b>	<b>T</b>	<b>P</b>	<b>dØ</b>	<b>CAP</b>	<b>W</b>	<b>H</b>	<b>T</b>	<b>P</b>	<b>dØ</b>
0.0047	13.0	11.0	5.0	10.0	0.6	0.22	26.5	16.5	7.0	22.5	0.8
0.0056	13.0	11.0	5.0	10.0	0.6	0.33	26.5	17.0	8.5	22.5	0.8
0.0068	13.0	11.0	5.0	10.0	0.6	0.39	26.5	19.0	10.0	22.5	0.8
0.0082	13.0	11.0	5.0	10.0	0.6	0.47	26.5	19.0	10.0	22.5	0.8
0.01	13.0	11.0	5.0	10.0	0.6	0.47	32.0	20.0	11.0	27.5	0.8
0.012	13.0	11.0	5.0	10.0	0.6	0.56	32.0	20.0	11.0	27.5	0.8
0.015	13.0	11.0	5.0	10.0	0.6	0.6	32.0	20.0	11.0	27.5	0.8
0.018	13.0	12.0	6.0	10.0	0.6	0.68	32.0	20.0	11.0	27.5	0.8
0.022	13.0	12.0	6.0	10.0	0.6	0.82	32.0	22.0	13.0	27.5	0.8
0.027	13.0	12.0	6.0	10.0	0.6	1.0	32.0	22.0	13.0	27.5	0.8
0.033	18.0	11.0	5.0	15.0	0.8	1.0	37.0	24.0	12.5	31.5	0.8
0.039	18.0	11.0	5.0	15.0	0.8	1.2	37.0	24.0	13.5	31.5	0.8
0.047	18.0	11.0	5.0	15.0	0.8	1.5	37.0	26.0	15.0	31.5	0.8
0.056	18.0	12.0	6.0	15.0	0.8	1.8	37.0	29.0	19.0	31.5	0.8
0.068	18.0	12.0	6.0	15.0	0.8	2.2	37.0	29.0	19.0	31.5	0.8
0.082	18.0	12.0	6.0	15.0	0.8	2.7	37.0	29.0	19.0	31.5	0.8
0.1	18.0	13.5	6.0	15.0	0.8	3.3	39.0	32.0	22.0	31.5	0.8
0.12	18.0	13.5	7.5	15.0	0.8	3.9	50.0	30.0	20.0	44.5	0.8
0.15	18.0	14.5	8.5	15.0	0.8	4.7	51.0	32.0	22.0	44.5	0.8
0.18	26.5	16.5	7.0	22.5	0.8						

\*Please contact us for special item or size not listed

\*当 W 大于 26.5mm 时其外壳尺寸误差为 ±1.0mm

<b>µF / V</b>	<b>Tolerance</b>	<b>W</b>	<b>H</b>	<b>T</b>	<b>Pediform</b>	<b>P</b>	<b>L0</b>	<b>dØ</b>
<b>0.22µF/300VAC</b>	<b>±10%</b>	<b>18.0</b>	<b>16.0</b>	<b>10.0</b>	<b>A#</b>	<b>15.0</b>		<b>0.8</b>

19 · 耐压性能参数：

测试电压：1290VDC For 1 分钟

测试后标准：1.容量：0.22uF±10% (1KHZ 1V)

3.散逸因素：≤0.1% (1KHZ 1V) 测试

20 · 印字说明：



TENTA：天泰商標

MEX：产品类型

X1：产品名称

GMF：G 表示-40℃,M 表示+100℃，

F 表示穩態濕熱的持續時間 21 天

0.22uF:標準容量

K：標準容量允差值±10%

300VAC：額定電壓

：德国安规认证

：欧盟安规认证

：中国安规认证

：美國認證符號及電壓  
250VAC

EN60384-14：行业标准编号

XX-XX：月期-年期

备注：以此为例，不同规格随着容量不同，其测试后标准容量与标准容量部分（划线部位）也随着改变