



承認書

Specification for approval

版本	描述	日期

系列承认书

PART NAME

天泰料号

TENTA Material Number

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
孙兰金	徐志钦	杨再军			

TENTA ELECTRIC INDUSTRIAL CO., LTD.

SPECIFICATIONS

METALLIZED POLYPROPYLENE FILM CAPACITORS FOR DC VOLTAGEPMPR

SPECIFICATIONS:

1. Flame retardation epoxy resin powder coating provides safety and the identical outer appearance
2. The flame-retarded rating meet UL94V-0 requirement
3. CAPACITANCE TOLERANCE:
J ($\pm 5\%$), K ($\pm 10\%$)
4. RATED VOLTAGE:
100VDC, 250VDC, 400VDC, 630V DC
5. CAPACITANCE RANGE:
0.001 μ F to 10 μ F
6. OPERATING TEMPERATURE:
-40 $^{\circ}$ C to +85 $^{\circ}$ C
7. WITHSTAND VOLTAGE:
Between Electrodes 175% of the rated voltage for 5 sec.
8. DISSIPATION FACTOR ($\tan \delta$):
Max. 0.1% when measured at 1 kHz & 25 $^{\circ}$ C
9. INSULATION RESISTGANCE:
Between Electrodes
 - (1) Less than or equal to 0.33 μ F \cong 30,000 M Ω
 - (2) More than 0.33 μ F \cong 10,000 M Ω / μ FMEASURED AT 100VDC, 60 SEC. AND 20 $^{\circ}$ C
10. TENSILE STRANGTH OF ELECTRODES:
TEST CONDITION
Load force : 1.0kg
Holding Times: 10 \pm 1 sec.
TEST CRITERIA
No wire breakage and no damage of the capacitor.
11. BENDING STRENGTH OF ELECTRODES:
TEST CONDITION
Load Force : 0.5kg
Bending Times: Two consecutive bends(4X90 $^{\circ}$ C)in 5 sec.
TEST CRITERIA
No wire breakage and no damage of the capacitor.
12. VIBR ATION RESISTANCE:
TEST CONDITION
Frequency cycle : 1 minute per cycles 10-55-10Hz
Test Duration : Perpendicular direction with the same method for 45

minutes esth, total of 90 mimutes.

TEST CRITERIA

- (1) Appearance : No visible damage
- (2) Contact : Normal

13. SOLDERABILITY:

TEST CONDITION

- Solder Bath Temperature : $260 \pm 5^{\circ}\text{C}$
- Solder Time : 2 ± 0.5 sec.

TEST CRITERIA

3/4 of the surface tinning

14. HEAT SHOCK TEST:

TEST CONDITION

- The Electrodes of capacitor shall be immersed in the emitting solder.
- Solder Bath Temperature : $260 \pm 5^{\circ}\text{C}$
- Solder Time : 3 ± 0.5 sec.
- Testing Voltage : 175% of the rated voltage for 1 minute

TEST CRITERIA

- (1) Appearance : No visible damage
- (2) Withstand Voltage : Normal
- (3) Capacitance Change : $\cong \pm 3\%$ of the initial value.

15. COLD RESISTANCE:

TEST CONDITION

- Test Temperature : $-40 \pm 2^{\circ}\text{C}$
- Test Duration : 2 hrs

TEST CRITERIA

- (1) Appearance : No visible damage
- (2) Capacitance Change : $\cong +0\%, -5\%$ (-40°C) of the initial value.

16. DRY HEAT RESISTANCE:

TEST CONDITION

- Test Temperature : $85 \pm 2^{\circ}\text{C}$
- Test Duration : 2 hrs

TEST CRITERIA(at 85°C)

Capacitance Change : $\leq +5\%, -2\%$ of the initial value

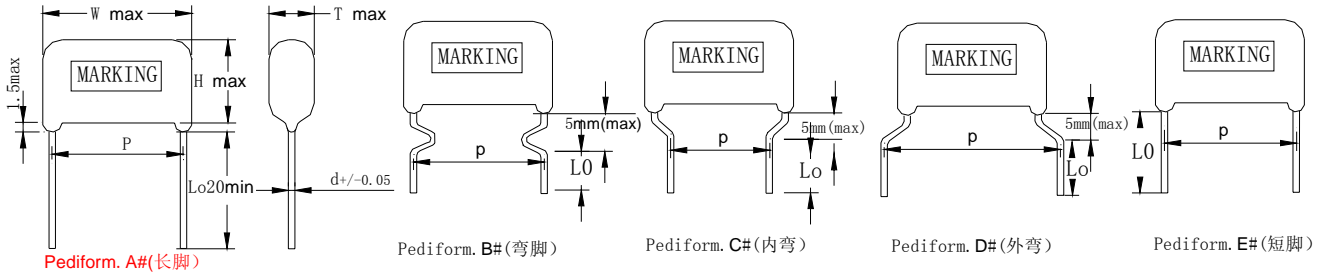
17. HUMIDITY RESISTANCE:

TEST CONDITION

- Test Temperature : $40 \pm 2^{\circ}\text{C}$
- Relative Humidity: 90 to 95%
- Test Duration : 240 ± 8 hrs than condition at standard state 16 hrs.
- Test Voltage : 175% of the rated voltage for 1 minute

TEST CRITERIA

- (1) Appearance : No visible damage
- (2) Capacitance Change : $\leq \pm 5\%$ of the initial value
- (3) IR : Over $3000\text{M}\Omega/\mu\text{F}$
- (4) Withstand Voltage : Normal



(Unit:mm)

Capacitance	2A(100VDC)						2E(250VDC)					2G(400VDC)					2J(630VDC)				
sympo	uf	W	H	T	P	dØ	W	H	T	P	dØ	W	H	T	P	dØ	W	H	T	P	dØ
102	0.001																9.5	8.5	4.5	7.5	0.6
152	0.0015																9.5	8.5	4.5	7.5	0.6
222	0.0022																9.5	9.0	5.0	7.5	0.6
332	0.0033											9.5	8.5	5.0	7.5	0.6	13.0	9.0	5.0	10.0	0.6
472	0.0047											9.5	9.5	5.0	7.5	0.6	13.0	9.0	5.0	10.0	0.6
682	0.0068											9.5	9.5	5.0	7.5	0.6	13.0	9.0	5.0	10.0	0.6
103	0.01											13.0	8.5	5.0	10.0	0.6	13.0	10.0	6.0	10.0	0.6
153	0.015											13.0	9.0	5.0	10.0	0.6	13.0	12.0	7.0	10.0	0.6
223	0.022						13.0	9.0	5.0	10.0	0.6	13.0	10.5	5.5	10.0	0.6	18.0	10.5	6.5	15.0	0.6
333	0.033						13.0	9.0	5.0	10.0	0.6	13.0	12.0	6.5	10.0	0.6	18.0	12.5	7.5	15.0	0.6
473	0.047	13.0	9.0	5.0	10.0	0.6	13.0	10.0	5.5	10.0	0.6	13.0	13.0	7.5	10.0	0.6	18.0	14.0	8.5	15.0	0.8
683	0.068	13.0	9.5	5.0	10.0	0.6	13.0	11.5	6.5	10.0	0.6	18.0	12.5	6.5	15.0	0.8	18.0	15.5	10.0	15.0	0.8
104	0.1	13.0	10.5	6.0	10.0	0.6	13.0	12.5	7.5	10.0	0.6	18.0	13.5	8.0	15.0	0.8	24.0	15.0	9.0	20.0	0.8
154	0.15	13.0	11.5	7.0	10.0	0.6	13.0	11.0	6.0	15.0	0.6	18.0	15.5	9.0	15.0	0.8	24.0	16.0	10.0	20.0	0.8
224	0.22	18.0	12.0	6.0	15.0	0.6	18.0	13.0	7.0	15.0	0.6	26.0	15.5	8.0	22.5	0.8	26.0	17.0	9.5	22.5	0.8
334	0.33	18.0	13.0	7.0	15.0	0.8	18.0	14.5	8.0	15.0	0.8	26.0	17.0	9.0	22.5	0.8	26.0	18.0	10.0	22.5	0.8
474	0.47	18.0	14.0	8.5	15.0	0.8	18.0	16.0	10.0	15.0	0.8	26.0	18.0	10.0	22.5	0.8	31.0	18.0	11.0	27.5	0.8
684	0.68	24.0	15.0	8.0	20.0	0.8	24.0	17.0	10.0	20.0	0.8	26.0	19.0	10.0	22.5	0.8	31.0	20.0	12.0	27.5	0.8
105	1.0	24.0	16.0	9.0	20.0	0.8	24.0	18.0	11.0	20.0	0.8	31.0	20.0	12.0	27.5	0.8	31.0	24.0	15.0	27.5	0.8
155	1.5	24.0	18.0	10.0	20.0	0.8	24.0	21.0	13.0	20.0	0.8	31.0	23.0	13.0	27.5	0.8					
225	2.2	31.0	18.0	11.0	27.5	0.8	31.0	21.0	13.0	27.5	0.8	31.0	26.0	15.5	27.5	0.8					
335	3.3	31.0	21.0	12.0	27.5	0.8	31.0	25.0	15.5	27.5	0.8										
475	4.7	31.0	26.0	15.0	27.5	0.8															
685	6.8	34.0	28.0	16.0	31.0	0.8										P	10.0	15.0	22.5	27.5	31.0
106	10.0	34.0	31.0	18.5	31.0	0.8										TOL	±1.0	±1.0	±1.0	±1.5	±1.5

*Please contact us for special item or size not listed

我司料号	µF / V	Tolerance	Wmax	Hmax	Tmax	Pediform	P	L0	dØ
PMPR103J630D01	0.01µF / 630VDC	±5%	13.0	11.0	7.0	A#	10.0		0.6
PMPR104J630D03	0.1µF / 630VDC	±5%	18.0	14.0	8.5	A#	15.0		0.8
PMPR104J400D02	0.1µF / 400VDC	±5%	13.0	13.0	7.5	A#	10.0		0.6
PMPR104J100D01	0.1µF / 100VDC	±5%	13.0	11.0	7.0	A#	10.0		0.6
PMPR224K100D01	0.22µF / 100VDC	±10%	18.0	12.0	7.5	A#	15.0		0.8
PMPR473J630D02	0.047µF / 630VDC	±5%	18.5	14.0	8.5	A#	15.0		0.8
PMPR224J400D02	0.22µF / 400VDC	±5%	18.0	15.5	10.0	A#	15.0		0.8