



WEIYI

抑制电磁干扰电容器

/Electromagnetic interference suppression capacitor

编号/Number

WY-3-003

版本日期/Date

2020. 12. 25

发行版次/Issue

B0

页码/Page

Page 4 of 6

附 1. 承认规格标准:

1. Scope:	This specification applied to capacitor for type X2 (BOX-TYPE Metallized Polypropylene Film Interference Suppression Capacitor)
2. Operation Temperature:	-40°C ~ +110°C
3. Capacitance Tolerance:	±10%(K)
4. Rated Voltage:	275VAC (50~60) HZ

产品图示 Product diagram	产品标识 Product identification

材质 Dielectric	电气性能 Electrical characteristics						尺寸 Dimensions (mm)						
	容量 Capacitance (NF)	静电容量 允许差 Cap.tol	初期 Tanδ Initial Tanδ (max)	额定电压 Rated voltage (V) DC	耐电压 Voltage proof 60s5mA max (V) DC	绝缘电阻 Insulation resistance MΩ MIN	W ± 1.0	H ± 0.8	T ± 0.8	F ± 0.8	d ± 0.05	L	
											± 0.5	min	
MPX	10	±10%	0.1%	275	1200	6000	13.0	11.0	5.0	10.0	0.6	3.5	15.0
	22	±10%	0.1%	275	1200	6000	13.0	11.0	5.0	10.0	0.6	3.5	15.0
	47	±10%	0.1%	275	1200	6000	10.0	10.0	5.0	7.5	0.6	3.5	15.0
							13.0	11.0	5.0	10.0	0.6	3.5	15.0
							18.0	12.0	6.0	15.0	0.8	3.5	15.0
	68	±10%	0.1%	275	1200	6000	13.0	12.0	6.0	10.0	0.6	3.5	15.0
	100	±10%	0.1%	275	1200	6000	10.0	11	5.0	7.5	0.6	3.5	15.0
							13.0	12.0	6.0	10.0	0.6	3.5	15.0
							18.0	12.0	6.0	15.0	0.8	3.5	15.0
	220	±10%	0.1%	275	1200	6000	13.0	12.0	6.0	10.0	0.6	3.5	15.0
							18.0	12.0	6.0	15.0	0.8	3.5	15.0
							18.0	14.5	8.5	15.0	0.8	3.5	15.0
	330	±10%	0.1%	275	1200	6000	13.0	14.0	8.0	10.0	0.6	3.5	15.0
							18.0	13.5	7.5	15.0	0.8	3.5	15.0
							18.0	14.5	8.5	15.0	0.8	3.5	15.0
	470	±10%	0.1%	275	1200	6000	18.0	14.5	8.5	15.0	0.8	3.5	15.0
							18.0	15.5	9.5	15.0	0.8	3.5	15.0
	680	±10%	0.1%	275	1200	6000	18.0	16.0	10.0	15.0	0.8	3.5	15.0
18.0							19.0	10.0	15.0	0.8	3.5	15.0	



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页 码/Page

Page 5 of 6

5. Specifications (IEC60384-14)

No	Test items	Performance	Test Method
7-1	Withstand voltage (Between Terminals)	Shall be no abnormality	1200VDC, 1~5sec.
	Between terminal and Enclosure	Shall be no abnormality	2000VAC, 1~5sec.
7-2	Insulation resistance (Between Terminals)	$C_R \leq 0.33\mu F$ IR $\geq 15,000M \Omega$ $C_R > 0.33\mu F$ IR $\geq 5,000 .S$	Measured at $100 \pm 15VDC$, For 60sec / $25^\circ C$
7-3	Capacitance	Within the tolerance specified	1KHz, 1Vrms Max. at $25^\circ C$
7-4	Dissipation Factor	0.001 (0.1%) Max.	1KHz, 1Vrms Max. at $25^\circ C$
7-5	Tense Strength of Terminal	No wire breakage and No Damage of Capacitor	1. Load Force : 1.0 Kg 2. Holding Time : 10 ± 1 sec
7-6	Bending Strength of Terminal	No wire breakage and No Damage of Capacitor	1. Load Force : 0.5 Kg 2. Bending Time : $4 \times 90^\circ$ in 5sec
7-7	Vibration	(1) Appearance : No Visible Damage (2) Contact : Normal	a. Frequency change : 1min. per cycle 10~55~10Hz b. Vibration distance : 1.5mm c. course: X、 Y、 Z (axis) d. Time : 2h / axis (6h in total)
7-8	Solder-ability	75% Of The Surface Tinning	a. Solder temperature: $230 \pm 5^\circ C$ b. Solder time: 2 ± 0.5 sec
7-9	Heat Shock test	(1) Appearance : No Visible Damage (2) Withstand Voltage : Normal (3) Capacitance Change : $\leq \pm 3\%$ of The Initial Value	The terminal of capacitor shall be immersed in the melting solder. a. Solder temperature: $230 \pm 5^\circ C$ b. Solder time: 3 ± 0.5 sec c. Test Voltage: 150% of The Rate Voltage For 1min.
7-10	Cold Resistance	(1) Appearance : No Visible Damage (2) Capacitance Change : $\leq 0 \sim -10\%$ of The Initial Value	a. Test Temperature: $-40^\circ C$ b. Test Times: 2Hrs



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页 码/Page

Page 6 of 6

Continued 续表

No	Test items	Performance	Test Method
7-11	Dry Heat Resistance	(1) Appearance : No Visible Damage (2) Withstand Voltage : Normal (3) Capacitance Change : $\leq +5\sim -2\%$ Of The Initial Value (4) Insulation Resistance: $\geq 50\%$ of the rated value	a. TEST TEMPERATURE: $110^{\circ}\text{C} \pm 2^{\circ}\text{C}$ b. Test Times: 2Hrs
7-12	Humidity Resistance	(1) Appearance : No Visible Damage (2) Withstand Voltage : Normal (3) Capacitance Change : $\leq \pm 10\%$ of The Initial Value (4) Insulation Resistance: $\geq 50\%$ of the rated value (5) DF ($\tan \delta$) ≤ 0.001	a. TEST TEMPERATURE: $40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ b. RELATIVE HUMIDITY: 90 ~ 95% c. Test Times: 240 \pm 8 HRS d. TEST VOLTAGE: 130% of The Rated Voltage for 1 min.
7-13	Heat Resistance (Charge & Discharge)	(1) Appearance : No Visible Damage (2) DF ($\tan \delta$) ≤ 0.001 (3) Capacitance Change : $\pm 10\%$ of The Initial Value (4) Insulation Resistance: $\geq 50\%$ of the rated value	a. Test Voltage : Rated Voltage Charge for 2 sec. Discharge for 2 sec. Repeated For 10,000 cycles
7-14	Heat Resistance (Continuous)	(1) Appearance : No Visible Damage (2) DF ($\tan \delta$) ≤ 0.001 (3) Capacitance Change : $\pm 7\%$ of The Initial Value (4) Insulation Resistance: $\geq 50\%$ of the rated value	a. Test Voltage : 125% of The Rated Voltage for 1000Vrms for 0.1s every one hour during tset. b. Test Temperature: $110^{\circ}\text{C} \pm 2^{\circ}\text{C}$ c. Test Times: 1000 \pm 24Hrs
7-15	Passive flammability	The flaming time of each capacitor shall Not go beyond 30s after it is taken apart From the flame. Drop of each capacitor caused by flame Shall not fire-the tissue below.	Needle flame test The category of flammability: C Expose time : 1 time Capacitor Volume Exposing time $250 < V(\text{mm}^3) \cong 500$ 10s $500 < V(\text{mm}^3) \cong 1750$ 20s $V(\text{mm}^3) > 1750$ 30s