

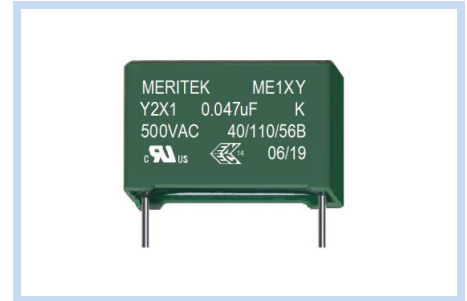
# EMI Suppression Capacitors X1/Y2 Class 500VAC

ME1XY-50 Series

**MERITEK**

## FEATURE

- Self-Healing Property
- Dielectric: Metallized Polypropylene Film
- Winding: Non-Inductive Type
- Over Voltage Stress Withstanding
- Flammability Classification 94V-0
- UL/cUL Safety Approved: Certification No: E197475



## PART NUMBERING SYSTEM

ME1XY    223    K    50    xxx  
(1)        (2)        (3)        (4)        (5)



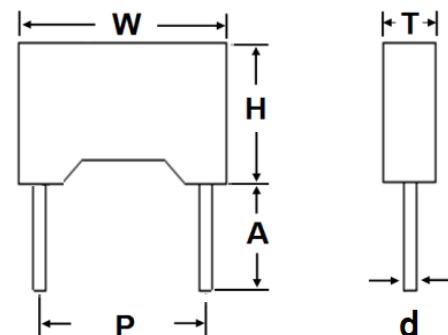
No	Item	Digit	Description	Reference
(1)	Meritek Series	ME1XY	EMI Suppression Capacitors	X1 /Y2 Class Safety Film Capacitor
(2)	Capacitance	223	223: 22000pF	First two digits: Significant, Third: Multiplier
(3)	Tolerance	K	K: ±10%	I: ±3%; J: ±5%, M: ±20%
(4)	Rated Voltage	50	50: 500VAC	at 50~60Hz
(5)	Internal Code	xxx	Pitch or Internal control code	Internal Control or project reference

## SPECIFICATIONS

Item	Characteristic	
Operating Temperature Range	-40°C ~ +110°C	
Rated Voltage, Climate Category	500VAC at 50~60Hz,	40/110/56/B
Capacitance, Tolerance	0.00047μF ~ 4.7μF	±3% (I), ±5% (J), ±10% (K), ±20% (M)
Dissipation Factor (tan δ)	≤0.1%	at 1KHz ±2%, ≤1.0V <sub>RMS</sub>
Insulation resistance Change Time: 60s ±5s	≥ 15,000MΩ (C≤0.33μF)	≥ 5,000MΩ*μF/C (C>0.33μF)
Withstanding Voltage	<b>Between Terminals</b>	<b>Between Terminals and Case</b>
	2KV <sub>AC</sub> for 2s, or 4KV <sub>DC</sub> for 2s	2*Ur+1.5KV <sub>AC</sub> for 2~5s, Min 2KV <sub>AC</sub>

## DIMENSION

P (mm)	d (mm)	W, H, T (mm)
7.5	0.6	See Table Attached
10.0	0.6	
15.0	0.6	
22.5	0.8	
27.5	0.8	
32.5	0.8	
37.5	1.0	
47.5	1.0	
51.5	1.0	



Note:

1. Standard lead length A: 15mm min.
2. Contact Meritek for other available options for lead forming or assembly

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## ELECTRICAL SPECIFICATION – 500VAC

Part Number	Cap Code	Cap	Tol	Volt	W	H	T	P	d	Safety
		(uF)	(%)	(V <sub>AC</sub> )	(mm)	(mm)	(mm)	(mm)	(mm)	Compliance
ME1XY471□5075	471	0.00047	I,J,K,M	500	10.5	9.0	4.0	7.5	0.6	UL,cUL,ENEC
ME1XY471□5010	471	0.00047	I,J,K,M	500	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1XY471□5015	471	0.00047	I,J,K,M	500	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY561□5075	561	0.00056	I,J,K,M	500	10.5	9.0	4.0	7.5	0.6	UL,cUL,ENEC
ME1XY561□5010	561	0.00056	I,J,K,M	500	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1XY561□5015	561	0.00056	I,J,K,M	500	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY681□5075	681	0.00068	I,J,K,M	500	10.5	9.0	4.0	7.5	0.6	UL,cUL,ENEC
ME1XY681□5010	681	0.00068	I,J,K,M	500	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1XY681□5015	681	0.00068	I,J,K,M	500	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY821□5075	821	0.00082	I,J,K,M	500	10.5	9.0	4.0	7.5	0.6	UL,cUL,ENEC
ME1XY821□5010	821	0.00082	I,J,K,M	500	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1XY821□5015	821	0.00082	I,J,K,M	500	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY102□5075	102	0.0010	I,J,K,M	500	10.5	9.0	4.0	7.5	0.6	UL,cUL,ENEC
ME1XY102□5010A	102	0.0010	I,J,K,M	500	13.0	9.0	4.0	10.0	0.6	UL,cUL,ENEC
ME1XY102□5010B	102	0.0010	I,J,K,M	500	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1XY102□5015	102	0.0010	I,J,K,M	500	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY122□5075	122	0.0012	I,J,K,M	500	10.5	9.0	4.0	7.5	0.6	UL,cUL,ENEC
ME1XY122□5010A	122	0.0012	I,J,K,M	500	13.0	9.0	4.0	10.0	0.6	UL,cUL,ENEC
ME1XY122□5010B	122	0.0012	I,J,K,M	500	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1XY152□5075	152	0.0015	I,J,K,M	500	10.5	9.0	4.0	7.5	0.6	UL,cUL,ENEC
ME1XY152□5010A	152	0.0015	I,J,K,M	500	13.0	9.0	4.0	10.0	0.6	UL,cUL,ENEC
ME1XY152□5010B	152	0.0015	I,J,K,M	500	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1XY152□5015	152	0.0015	I,J,K,M	500	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY182□5075	182	0.0018	I,J,K,M	500	10.5	9.0	4.0	7.5	0.6	UL,cUL,ENEC
ME1XY182□5010A	182	0.0018	I,J,K,M	500	13.0	9.0	4.0	10.0	0.6	UL,cUL,ENEC
ME1XY182□5010B	182	0.0018	I,J,K,M	500	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1XY222□5075A	222	0.0022	I,J,K,M	500	10.5	9.0	4.0	7.5	0.6	UL,cUL,ENEC
ME1XY222□5075B	222	0.0022	I,J,K,M	500	10.5	11.0	5.0	7.5	0.6	UL,cUL,ENEC
ME1XY222□5010A	222	0.0022	I,J,K,M	500	13.0	9.0	4.0	10.0	0.6	UL,cUL,ENEC
ME1XY222□5010B	222	0.0022	I,J,K,M	500	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1XY222□5015A	222	0.0022	I,J,K,M	500	17.5	9.5	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY222□5015B	222	0.0022	I,J,K,M	500	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY222□5075A	222	0.0027	I,J,K,M	500	10.5	9.0	4.0	7.5	0.6	UL,cUL,ENEC
ME1XY272□5075B	272	0.0027	I,J,K,M	500	10.5	11.0	5.0	7.5	0.6	UL,cUL,ENEC
ME1XY272□5010A	272	0.0027	I,J,K,M	500	13.0	9.0	4.0	10.0	0.6	UL,cUL,ENEC

Note: 1. □: denotes tolerance code

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## ELECTRICAL SPECIFICATION – 500VAC

Part Number	Cap Code	Cap	Tol	Volt	W	H	T	P	d	Safety
		( $\mu$ F)	(%)	(V <sub>AC</sub> )	(mm)	(mm)	(mm)	(mm)	(mm)	Compliance
ME1XY272□5010B	272	0.0027	I,J,K,M	500	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1XY272□5015A	272	0.0027	I,J,K,M	500	17.5	9.5	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY272□5015B	272	0.0027	I,J,K,M	500	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY332□5075	332	0.0033	I,J,K,M	500	10.5	11.0	5.0	7.5	0.6	UL,cUL,ENEC
ME1XY332□5010A	332	0.0033	I,J,K,M	500	13.0	9.0	4.0	10.0	0.6	UL,cUL,ENEC
ME1XY332□5010B	332	0.0033	I,J,K,M	500	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1XY332□5015A	332	0.0033	I,J,K,M	500	17.5	9.5	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY332□5015B	332	0.0033	I,J,K,M	500	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY392□5075	392	0.0039	I,J,K,M	500	10.5	11.0	5.0	7.5	0.6	UL,cUL,ENEC
ME1XY392□5010A	392	0.0039	I,J,K,M	500	13.0	9.0	4.0	10.0	0.6	UL,cUL,ENEC
ME1XY392□5010B	392	0.0039	I,J,K,M	500	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1XY392□5015A	392	0.0039	I,J,K,M	500	17.5	9.5	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY392□5015B	392	0.0039	I,J,K,M	500	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY472□5075	472	0.0047	I,J,K,M	500	10.5	11.0	5.0	7.5	0.6	UL,cUL,ENEC
ME1XY472□5010	472	0.0047	I,J,K,M	500	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1XY472□5015A	472	0.0047	I,J,K,M	500	17.5	9.5	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY472□5015B	472	0.0047	I,J,K,M	500	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY562□5075	562	0.0056	I,J,K,M	500	10.5	11.0	5.0	7.5	0.6	UL,cUL,ENEC
ME1XY562□5010	562	0.0056	I,J,K,M	500	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1XY562□5015A	562	0.0056	I,J,K,M	500	17.5	9.5	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY562□5015B	562	0.0056	I,J,K,M	500	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY682□5010	682	0.0068	I,J,K,M	500	13.0	12.0	6.0	10.0	0.6	UL,cUL,ENEC
ME1XY682□5015A	682	0.0068	I,J,K,M	500	17.5	9.5	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY682□5015B	682	0.0068	I,J,K,M	500	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY822□5010	822	0.0082	I,J,K,M	500	13.0	12.0	6.0	10.0	0.6	UL,cUL,ENEC
ME1XY822□5015A	822	0.0082	I,J,K,M	500	17.5	9.5	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY822□5015B	822	0.0082	I,J,K,M	500	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY103□5010	103	0.010	I,J,K,M	500	13.0	12.0	6.0	10.0	0.6	UL,cUL,ENEC
ME1XY103□5015A	103	0.010	I,J,K,M	500	17.5	9.5	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY103□5015B	103	0.010	I,J,K,M	500	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY123□5010	123	0.012	I,J,K,M	500	13.0	12.0	6.0	10.0	0.6	UL,cUL,ENEC
ME1XY123□5015	123	0.012	I,J,K,M	500	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY153□5010	153	0.015	I,J,K,M	500	13.0	12.0	6.0	10.0	0.6	UL,cUL,ENEC
ME1XY153□5015	153	0.015	I,J,K,M	500	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY183□5015	183	0.018	I,J,K,M	500	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC

Note: 1. □: denotes tolerance code

# EMI Suppression Capacitors X1/Y2 Class 500VAC

ME1XY-50 Series

**MERITEK**

## ELECTRICAL SPECIFICATION – 500VAC

Part Number	Cap Code	Cap	Tol	Volt	W	H	T	P	d	Safety
		(uF)	(%)	(V <sub>AC</sub> )	(mm)	(mm)	(mm)	(mm)	(mm)	Compliance
ME1XY223□5010	223	0.022	I,J,K,M	500	13.0	13.0	7.0	10.0	0.6	UL,cUL,ENEC
ME1XY223□5015	223	0.022	I,J,K,M	500	17.5	11.0	5.5	15.0	0.6	UL,cUL,ENEC
ME1XY253□5015	253	0.025	I,J,K,M	500	18.0	12.0	6.0	15.0	0.6	UL,cUL,ENEC
ME1XY273□5010	273	0.027	I,J,K,M	500	13.0	14.0	8.0	10.0	0.6	UL,cUL,ENEC
ME1XY273□5015A	273	0.027	I,J,K,M	500	17.5	11.0	5.5	15.0	0.6	UL,cUL,ENEC
ME1XY273□5015B	273	0.027	I,J,K,M	500	18.0	12.0	6.0	15.0	0.6	UL,cUL,ENEC
ME1XY333□5010	333	0.033	I,J,K,M	500	13.0	14.0	8.0	10.0	0.6	UL,cUL,ENEC
ME1XY333□5015	333	0.033	I,J,K,M	500	18.0	12.0	6.0	15.0	0.6	UL,cUL,ENEC
ME1XY333□5022	333	0.033	I,J,K,M	500	25.0	14.5	6.0	22.5	0.8	UL,cUL,ENEC
ME1XY393□5015	393	0.039	I,J,K,M	500	18.0	13.5	6.0	15.0	0.6	UL,cUL,ENEC
ME1XY393□5022	393	0.039	I,J,K,M	500	25.0	14.5	6.0	22.5	0.8	UL,cUL,ENEC
ME1XY473□5015	473	0.047	I,J,K,M	500	18.0	13.5	6.0	15.0	0.6	UL,cUL,ENEC
ME1XY473□5022	473	0.047	I,J,K,M	500	25.0	14.5	6.0	22.5	0.8	UL,cUL,ENEC
ME1XY563□5015	563	0.056	I,J,K,M	500	17.0	15.5	7.5	15.0	0.6	UL,cUL,ENEC
ME1XY563□5022	563	0.056	I,J,K,M	500	25.0	14.5	6.0	22.5	0.8	UL,cUL,ENEC
ME1XY683□5015	683	0.068	I,J,K,M	500	17.0	15.5	7.5	15.0	0.6	UL,cUL,ENEC
ME1XY683□5022A	683	0.068	M	500	25.0	14.5	6.0	22.5	0.8	UL,cUL,ENEC
ME1XY683□5022B	683	0.068	I,J,K,M	500	26.5	16.5	7.0	22.5	0.8	UL,cUL,ENEC
ME1XY823□5015	823	0.082	I,J,K,M	500	17.0	16.5	9.5	15.0	0.6	UL,cUL,ENEC
ME1XY823□5022	823	0.082	I,J,K,M	500	26.5	16.5	7.0	22.5	0.8	UL,cUL,ENEC
ME1XY104□5015	104	0.10	I,J,K,M	500	17.0	16.5	9.5	15.0	0.6	UL,cUL,ENEC
ME1XY104□5022A	104	0.10	I,J,K,M	500	26.5	16.5	7.0	22.5	0.8	UL,cUL,ENEC
ME1XY104□5022B	104	0.10	I,J,K,M	500	26.5	29.5	14.5	22.5	0.8	UL,cUL,ENEC
ME1XY104□5027	104	0.10	I,J,K,M	500	31.5	16.5	7.5	27.5	0.8	UL,cUL,ENEC
ME1XY124□5022	124	0.12	I,J,K,M	500	26.5	17.0	8.5	22.5	0.8	UL,cUL,ENEC
ME1XY124□5027	124	0.12	I,J,K,M	500	31.0	18.0	9.0	27.5	0.8	UL,cUL,ENEC
ME1XY154□5022	154	0.15	I,J,K,M	500	26.5	19.0	10.0	22.5	0.8	UL,cUL,ENEC
ME1XY154□5027A	154	0.15	I,J,K,M	500	31.0	18.0	9.0	27.5	0.8	UL,cUL,ENEC
ME1XY154□5027B	154	0.15	I,J,K,M	500	32.0	12.0	18.0	27.5	0.8	UL,cUL,ENEC
ME1XY184□5022	184	0.18	I,J,K,M	500	26.0	20.0	11.0	22.5	0.8	UL,cUL,ENEC
ME1XY184□5027	184	0.18	I,J,K,M	500	31.5	20.0	11.0	27.5	0.8	UL,cUL,ENEC
ME1XY224□5022	224	0.22	I,J,K,M	500	26.5	21.5	12.0	22.5	0.8	UL,cUL,ENEC
ME1XY224□5027A	224	0.22	I,J,K,M	500	30.0	21.0	12.0	27.5	0.8	UL,cUL,ENEC
ME1XY224□5027B	224	0.22	I,J,K,M	500	31.5	20.0	11.0	27.5	0.8	UL,cUL,ENEC
ME1XY224□5027C	224	0.22	M	500	32.0	12.0	18.0	27.5	0.8	UL,cUL,ENEC

Note: 1. □: denotes tolerance code

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ME1XY-50 Series

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## ELECTRICAL SPECIFICATION – 500VAC

Part Number	Cap Code	Cap	Tol	Volt	W	H	T	P	d	Safety
		( $\mu$ F)	(%)	(V <sub>AC</sub> )	(mm)	(mm)	(mm)	(mm)	(mm)	Compliance
ME1XY274□5022	274	0.27	I,J,K,M	500	26.5	22.5	12.5	22.5	0.8	UL,cUL,ENEC
ME1XY274□5027A	274	0.27	M	500	31.5	20.0	11.0	27.5	0.8	UL,cUL,ENEC
ME1XY274□5027B	274	0.27	I,J,K,M	500	31.5	22.5	13.0	27.5	0.8	UL,cUL,ENEC
ME1XY334□5022A	334	0.33	I,J,K,M	500	26.0	25.0	15.0	22.5	0.8	UL,cUL,ENEC
ME1XY334□5022B	334	0.33	I,J,K,M	500	26.5	29.5	14.5	22.5	0.8	UL,cUL,ENEC
ME1XY334□5027A	334	0.33	I,J,K,M	500	31.0	24.5	15.0	27.5	0.8	UL,cUL,ENEC
ME1XY334□5027B	334	0.33	M	500	31.5	22.5	13.0	27.5	0.8	UL,cUL,ENEC
ME1XY334□5027C	334	0.33	I,J,K,M	500	31.5	25.0	14.0	27.5	0.8	UL,cUL,ENEC
ME1XY334□5027D	334	0.33	M	500	32.0	12.0	22.0	27.5	0.8	UL,cUL,ENEC
ME1XY334□5032	334	0.33	I,J,K,M	500	37.0	24.0	13.5	32.5	0.8	UL,cUL,ENEC
ME1XY334□5037	334	0.33	I,J,K,M	500	41.5	22.0	12.0	37.5	1.0	UL,cUL,ENEC
ME1XY394□5022A	394	0.39	M	500	26.0	25.0	15.0	22.5	0.8	UL,cUL,ENEC
ME1XY394□5022B	394	0.39	M	500	26.5	29.5	14.5	22.5	0.8	UL,cUL,ENEC
ME1XY394□5027A	394	0.39	I,J,K,M	500	31.0	24.5	15.0	27.5	0.8	UL,cUL,ENEC
ME1XY394□5027B	394	0.39	I,J,K,M	500	32.0	28.0	14.0	27.5	0.8	UL,cUL,ENEC
ME1XY394□5032A	394	0.39	I,J,K,M	500	37.0	24.0	13.5	32.5	0.8	UL,cUL,ENEC
ME1XY394□5032B	394	0.39	M	500	37.0	24.0	13.5	32.5	0.8	UL,cUL,ENEC
ME1XY394□5037A	394	0.39	K	500	41.0	24.0	13.0	37.5	1.0	UL,cUL,ENEC
ME1XY394□5037B	394	0.39	M	500	41.5	22.0	12.0	37.5	1.0	UL,cUL,ENEC
ME1XY394□5037C	394	0.39	I,J,K,M	500	41.5	26.0	14.5	37.5	1.0	UL,cUL,ENEC
ME1XY474□5027A	474	0.47	M	500	31.0	24.5	15.0	27.5	0.8	UL,cUL,ENEC
ME1XY474□5027B	474	0.47	I,J,K,M	500	32.0	16.0	27.5	27.5	0.8	UL,cUL,ENEC
ME1XY474□5027C	474	0.47	I,J,K,M	500	32.0	28.0	18.0	27.5	0.8	UL,cUL,ENEC
ME1XY474□5027D	474	0.47	M	500	32.0	28.0	14.0	27.5	0.8	UL,cUL,ENEC
ME1XY474□5027E	474	0.47	I,J,K,M	500	32.0	30.0	15.0	27.5	0.8	UL,cUL,ENEC
ME1XY474□5032A	474	0.47	I,J,K,M	500	37.0	24.0	13.5	32.5	0.8	UL,cUL,ENEC
ME1XY474□5032B	474	0.47	I,J,K,M	500	37.0	26.5	16.0	32.5	0.8	UL,cUL,ENEC
ME1XY474□5037A	474	0.47	I,J,K,M	500	41.0	24.0	13.0	37.5	1.0	UL,cUL,ENEC
ME1XY474□5037B	474	0.47	I,J,K,M	500	41.5	26.0	14.5	37.5	1.0	UL,cUL,ENEC
ME1XY474□5037C	474	0.47	I,J,K,M	500	42.0	15.0	24.0	37.5	1.0	UL,cUL,ENEC
ME1XY564□5027A	564	0.56	I,J,K,M	500	32.0	28.0	18.0	27.5	0.8	UL,cUL,ENEC
ME1XY564□5027B	564	0.56	I,J,K,M	500	32.0	30.0	15.0	27.5	0.8	UL,cUL,ENEC
ME1XY564□5032A	564	0.56	I,J,K,M	500	37.0	26.5	16.0	32.5	0.8	UL,cUL,ENEC
ME1XY564□5032B	564	0.56	I,J,K,M	500	37.0	28.5	18.0	32.5	0.8	UL,cUL,ENEC
ME1XY564□5037A	564	0.56	I,J,K,M	500	41.5	26.0	14.5	37.5	1.0	UL,cUL,ENEC

Note: 1. □: denotes tolerance code

# EMI Suppression Capacitors X1/Y2 Class 500VAC

ME1XY-50 Series

**MERITEK**

## ELECTRICAL SPECIFICATION – 500VAC

Part Number	Cap Code	Cap	Tol	Volt	W	H	T	P	d	Safety
		( $\mu$ F)	(%)	(V <sub>AC</sub> )	(mm)	(mm)	(mm)	(mm)	(mm)	Compliance
ME1XY564□5037B	564	0.56	I,J,K,M	500	42.0	28.0	14.0	37.5	1.0	UL,cUL,ENEC
ME1XY684□5027A	684	0.68	I,J,K,M	500	31.5	33.0	18.0	27.5	0.8	UL,cUL,ENEC
ME1XY684□5027B	684	0.68	I,J,K,M	500	32.0	18.5	31.0	27.5	0.8	UL,cUL,ENEC
ME1XY684□5027C	684	0.68	M	500	32.0	28.0	18.0	27.5	0.8	UL,cUL,ENEC
ME1XY684□5027D	684	0.68	I,J,K,M	500	32.0	30.0	21.0	27.5	0.8	UL,cUL,ENEC
ME1XY684□5032A	684	0.68	I,J,K,M	500	35.5	31.0	20.0	32.5	0.8	UL,cUL,ENEC
ME1XY684□5032B	684	0.68	M	500	37.0	26.5	16.0	32.5	0.8	UL,cUL,ENEC
ME1XY684□5032C	684	0.68	M	500	37.0	28.5	18.0	32.5	0.8	UL,cUL,ENEC
ME1XY684□5037A	684	0.68	M	500	41.5	26.0	14.5	37.5	1.0	UL,cUL,ENEC
ME1XY684□5037B	684	0.68	I,J,K,M	500	41.5	30.0	17.0	37.5	1.0	UL,cUL,ENEC
ME1XY684□5037C	684	0.68	M	500	42.0	28.0	14.0	37.5	1.0	UL,cUL,ENEC
ME1XY824□5027A	824	0.82	M	500	31.5	33.0	18.0	27.5	0.8	UL,cUL,ENEC
ME1XY824□5027B	824	0.82	M	500	32.0	18.5	31.0	27.5	0.8	UL,cUL,ENEC
ME1XY824□5027C	824	0.82	I,J,K,M	500	32.0	37.0	22.0	27.5	0.8	UL,cUL,ENEC
ME1XY824□5032A	824	0.82	I,J,K,M	500	35.5	31.0	20.0	32.5	0.8	UL,cUL,ENEC
ME1XY824□5032B	824	0.82	I,J,K,M	500	37.0	34.0	22.0	32.5	0.8	UL,cUL,ENEC
ME1XY824□5037A	824	0.82	I,J,K,M	500	41.5	30.0	17.0	37.5	1.0	UL,cUL,ENEC
ME1XY824□5037B	824	0.82	I,J,K,M	500	42.0	19.0	24.0	37.5	1.0	UL,cUL,ENEC
ME1XY105□5027	105	1.0	I,J,K,M	500	32.0	37.0	22.0	27.5	0.8	UL,cUL,ENEC
ME1XY105□5032A	105	1.0	I,J,K,M	500	37.0	34.0	22.0	32.5	0.8	UL,cUL,ENEC
ME1XY105□5032B	105	1.0	M	500	37.0	34.0	22.0	32.5	0.8	UL,cUL,ENEC
ME1XY105□5037A	105	1.0	I,J,K,M	500	41.0	37.0	22.0	37.5	1.0	UL,cUL,ENEC
ME1XY105□5037B	105	1.0	M	500	41.5	30.0	17.0	37.5	1.0	UL,cUL,ENEC
ME1XY105□5037C	105	1.0	M	500	41.5	32.0	19.0	37.5	1.0	UL,cUL,ENEC
ME1XY105□5037D	105	1.0	I,J,K,M	500	41.5	34.0	20.5	37.5	1.0	UL,cUL,ENEC
ME1XY105□5037E	105	1.0	I,J,K,M	500	41.5	35.5	22.5	37.5	1.0	UL,cUL,ENEC
ME1XY105□5047A	105	1.0	I,J,K,M	500	51.0	27.5	17.5	47.5	1.0	UL,cUL,ENEC
ME1XY105□5047B	105	1.0	I,J,K,M	500	51.0	30.5	20.0	47.5	1.0	UL,cUL,ENEC
ME1XY125□5037	125	1.2	I,J,K,M	500	41.5	35.5	22.5	37.5	1.0	UL,cUL,ENEC
ME1XY125□5047A	125	1.2	I,J,K,M	500	51.0	30.5	20.0	47.5	1.0	UL,cUL,ENEC
ME1XY125□5047B	125	1.2	I,J,K,M	500	51.0	34.0	22.0	47.5	1.0	UL,cUL,ENEC
ME1XY125□5051	125	1.2	I,J,K,M	500	58.0	30.0	20.5	51.5	1.0	UL,cUL,ENEC
ME1XY152□5037	152	1.5	I,J,K,M	500	41.5	41.0	27.5	37.5	1.0	UL,cUL,ENEC
ME1XY152□5047A	152	1.5	I,J,K,M	500	51.0	34.0	22.0	47.5	1.0	UL,cUL,ENEC
ME1XY152□5047B	152	1.5	I,J,K,M	500	51.0	35.0	24.0	47.5	1.0	UL,cUL,ENEC

Note: 1. □: denotes tolerance code

# EMI Suppression Capacitors X1/Y2 Class 500VAC

ME1XY-50 Series

**MERITEK**

## ELECTRICAL SPECIFICATION – 500VAC

Part Number	Cap Code	Cap	Tol	Volt	W	H	T	P	d	Safety
		( $\mu$ F)	(%)	(V <sub>AC</sub> )	(mm)	(mm)	(mm)	(mm)	(mm)	Compliance
ME1XY152□5051	152	1.5	I,J,K,M	500	58.0	30.0	20.5	51.5	1.0	UL,cUL,ENEC
ME1XY185□5037A	185	1.8	I,J,K,M	500	41.5	43.0	28.0	37.5	1.0	UL,cUL,ENEC
ME1XY185□5037B	185	1.8	I,J,K,M	500	41.5	45.0	30.0	37.5	1.0	UL,cUL,ENEC
ME1XY185□5047A	185	1.8	I,J,K,M	500	51.0	35.0	24.0	47.5	1.0	UL,cUL,ENEC
ME1XY185□5047B	185	1.8	I,J,K,M	500	51.0	43.5	29.0	47.5	1.0	UL,cUL,ENEC
ME1XY185□5051	185	1.8	I,J,K,M	500	58.0	35.0	23.0	51.5	1.0	UL,cUL,ENEC
ME1XY205□5037	205	2.0	I,J,K,M	500	41.5	45.0	30.0	37.5	1.0	UL,cUL,ENEC
ME1XY205□5051	205	2.0	I,J,K,M	500	58.0	35.0	23.0	51.5	1.0	UL,cUL,ENEC
ME1XY225□5051	225	2.2	I,J,K,M	500	58.0	38.0	25.0	51.5	1.0	UL,cUL,ENEC
ME1XY255□5051	255	2.5	I,J,K,M	500	57.0	45.0	30.0	51.5	1.0	UL,cUL,ENEC
ME1XY275□5051	275	2.7	I,J,K,M	500	57.0	45.0	30.0	51.5	1.0	UL,cUL,ENEC
ME1XY305□5051	305	3.0	I,J,K,M	500	57.0	45.0	30.0	51.5	1.0	UL,cUL,ENEC
ME1XY335□5051A	335	3.3	I,J,K,M	500	57.0	30.0	44.0	51.5	1.0	UL,cUL,ENEC
ME1XY335□5051B	335	3.3	I,J,K,M	500	57.0	45.0	30.0	51.5	1.0	UL,cUL,ENEC
ME1XY395□5051	395	3.9	I,J,K,M	500	57.0	50.0	35.0	51.5	1.0	UL,cUL,ENEC
ME1XY475□5051A	475	4.7	I,J,K,M	500	57.0	50.0	35.0	51.5	1.0	UL,cUL,ENEC
ME1XY475□5051B	475	4.7	I,J,K,M	500	58.0	55.0	45.0	51.5	1.0	UL,cUL,ENEC
ME1XY475□5051C	475	4.7	I,J,K,M	500	58.0	56.5	43.0	51.5	1.0	UL,cUL,ENEC

Note: 1. □: denotes tolerance code



# EMI Suppression Capacitors X1/Y2 Class 500VAC

ME1XY-50 Series

**MERITEK**

## RELIABILTY AND TEST CONDITIONS

Item	Test Condition	Requirement																	
<b>Capacitance</b>	Measuring Frequency: $\pm 2\%$ , Measuring Voltage: $\leq 1V_{rms}$ .	Within the tolerance specified, at $+20\pm 5^{\circ}C$																	
<b>Withstand Voltage - Between Terminals</b>	Apply $2KV_{AC}$ for 2s or $4KV_{DC}$ for 2s	Within specified limits																	
<b>Withstand Voltage - Between Terminals &amp; Enclosure</b>	Apply 2 times of rated voltage plus $1.5KV_{AC}$ for 2~5s; Min. $2KV_{AC}$	Within specified limits																	
<b>Dissipation Factor</b>	Measuring Frequency: $\pm 2\%$ , Measuring Voltage: $\leq 1V_{rms}$ .	D.F. : $\leq 0.001(0.1\%)$ at 1KHz																	
<b>Insulation resistance</b>	Measured at $VR=500V_{AC}$ , $Vt=500V_{DC}$ , $250V_{AC} \leq VR < 500V_{AC}$ , $Vt=500V_{DC}$ ; Charge Time: $60 \pm 5$ Sec	$Cr \leq 0.33\mu F$ $IR \geq 15,000M\Omega$ $Cr > 0.33\mu F$ $IR \geq 5,000M\Omega \cdot \mu F/C$																	
<b>Solderability</b>	Soldering temperature: $+235 \pm 5^{\circ}C$ Immersion duration: $2 \pm 0.5$ sec	More than 90% of circumferential surface of lead wire shall be covered with new solder																	
<b>Tensile Terminal Strength</b>	Apply 1.0Kg (10N) for $10 \pm 1$ sec to the terminal in the axial direction and acting in a direction away from the body.	Shall be no abnormality																	
<b>Bending Terminal Strength</b>	Apply 0.5Kg for 2 cycles. Each cycle includes: $90^{\circ}$ once, return to its initial position for 2~3s and then to the opposite direction once.	Shall be no abnormality																	
<b>Damp Heat</b>	Temperature: $+40^{\circ}C \pm 2^{\circ}C$ , Relative Humidity: 90%~95% Time: 56days; After test, let rest for $1.5 \pm 0.5$ hr at ordinary condition before making measurements.	Appearance : No Visible Damage Withstand Voltage: Within specified limits $\Delta C/C$ : $\leq \pm 5\%$ of the value before test DF: $\leq 0.002 (0.2\%)$ Max at 1KHz IR: $\geq 50\%$ of the rated value																	
<b>Dry Heat Resistance</b>	Temperature: $110^{\circ}C \pm 2^{\circ}C$ , Times: 16 +1/-0Hrs																		
<b>Cold Resistance</b>	Temperature: $-40 \pm 3^{\circ}C$ , Times: $2 \pm 1$ Hrs																		
<b>Temperature Cycle</b>	Test Temperature Cycle: Total 5 cycles. Each cycle includes <table border="1"> <thead> <tr> <th>Cycle</th> <th>Temperature</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>1</td> <td><math>+20 \pm 2^{\circ}C</math></td> <td>3 min</td> </tr> <tr> <td>2</td> <td><math>-40 \pm 3^{\circ}C</math></td> <td>30min</td> </tr> <tr> <td>3</td> <td><math>+20 \pm 2^{\circ}C</math></td> <td>3 min</td> </tr> <tr> <td>4</td> <td><math>+110 \pm 2^{\circ}C</math></td> <td>30min</td> </tr> <tr> <td>5</td> <td><math>+20 \pm 2^{\circ}C</math></td> <td>3 min</td> </tr> </tbody> </table> After test, let rest for $1.5 \pm 0.5$ hr at ordinary condition before making measurements.		Cycle	Temperature	Time	1	$+20 \pm 2^{\circ}C$	3 min	2	$-40 \pm 3^{\circ}C$	30min	3	$+20 \pm 2^{\circ}C$	3 min	4	$+110 \pm 2^{\circ}C$	30min	5	$+20 \pm 2^{\circ}C$
Cycle	Temperature	Time																	
1	$+20 \pm 2^{\circ}C$	3 min																	
2	$-40 \pm 3^{\circ}C$	30min																	
3	$+20 \pm 2^{\circ}C$	3 min																	
4	$+110 \pm 2^{\circ}C$	30min																	
5	$+20 \pm 2^{\circ}C$	3 min																	
<b>Vibration Resistance</b>	Frequency change: 10~55~10Hz Vibration Distance: 1.5mm Test Direction: X, Y, Z Test Duration: 2+1/-0hrs each direction	Appearance : No mechanical Damage Connection: Shall be no short or open																	
<b>Soldering Heat Resistance</b>	Preheat Temperature: 100~120°C Preheat Duration: 60sec max Temperature increase by $3^{\circ}C/sec$ max Soldering Temperature: $+260 \pm 5^{\circ}C$ Immersion Duration: $5 \pm 1$ sec Immersion Depth: $4 \pm 0.8$ mm from roots After test, allow it stay alone for $1.5 \pm 0.5$ hrs at ordinary condition before making measurements	Appearance: No Visible Damage Withstand Voltage: Within specified limits $\Delta C/C$ : $\leq \pm 3\%$ of the value before test DF: $\leq 0.002 (0.2\%)$ Max at 1KHz IR: $\geq 50\%$ of the rated value																	



# EMI Suppression Capacitors X1/Y2 Class 500VAC

ME1XY-50 Series

**MERITEK**

## RELIABILITY AND TEST CONDITIONS

Item	Test Condition	Requirement
<b>Endurance</b>	Duration: 1,000 hours, Temperature: +110± 2°C Voltage: 1.25 times rated voltage. Once every hour the voltage increased to 1KVrms. For 0.1sec. The test voltage is applied to each capacitor individually through a Resistor of 47Ω±5%.	Appearance: No Visible Damage ΔC/C: ≤ ±10% of the value before test DF: ≤ 0.008 Max at 1KHz; for Cr≤1μF DF: ≤ 0.005 Max at 1KHz; for Cr>1μF IR: ≥ 50% of the rated value
<b>Humidity Resistance</b>	Test Temperature: -40±2°C Test Humidity: 87% to 93% R.H. Test Voltage: rated voltage Test Duration: 500 hours After test, allow it stay alone for 1.5±0.5hrs at ordinary condition before making measurements	Appearance: No Visible Damage Withstand Voltage: Within specified limits ΔC/C: ≤ ±5% of the value before test DF: ≤ 0.002 (0.2%) Max at 1KHz IR: ≥ 50% of the rated value

### Notes:

1. Ambient Temp: 15°C to 35°C, Relative Humidity (R.H.): 45% to 75%, Air Pressure: 86kpa to 106kpa
2. Operating Temperature: -40~110°C
3. Storage needs to be kept indoors at -10~+40°C and relative humidity of under 75% without any sudden temperature changes, direct sunlight and corrosive gas around
4. Do not apply and exceeding vibration, shock (dropping) and pressure

\*Specifications subject to change without notice.