

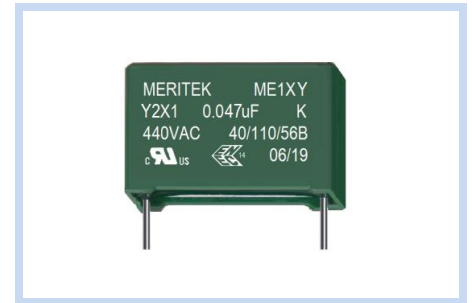
# EMI Suppression Capacitors X1/Y2 Class 440VAC

ME1XY-44 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    44    xxx  
(1)        (2)        (3)        (4)        (5)



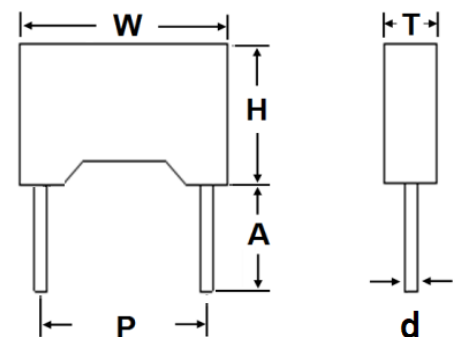
No	Item	Digit	Description	Reference
(1)	Meritek Series	ME1XY	EMI Suppression Capacitors	X1/Y2 Class Safety Film Capacitor
(2)	Capacitance	223	223: 2200pF	First two digits: Significant, Third: Multiplier
(3)	Tolerance	K	K: ±10%	I: ±3%; J: ±5%, M: ±20%
(4)	Rated Voltage	44	44: 440VAC	at 50~60Hz
(5)	Internal 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	440VAC 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%, ≤1.0 <sub>V</sub> RMS
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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ME1XY-44 Series

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## ELECTRICAL SPECIFICATION – 440VAC

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□4475	471	0.00047	I,J,K,M	440	10.5	9.0	4.0	7.5	0.6	UL,cUL,ENEC
ME1XY471□4410	471	0.00047	I,J,K,M	440	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1XY471□4415	471	0.00047	I,J,K,M	440	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY561□4475	561	0.00056	I,J,K,M	440	10.5	9.0	4.0	7.5	0.6	UL,cUL,ENEC
ME1XY561□4410	561	0.00056	I,J,K,M	440	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1XY561□4415	561	0.00056	I,J,K,M	440	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY681□4475	681	0.00068	I,J,K,M	440	10.5	9.0	4.0	7.5	0.6	UL,cUL,ENEC
ME1XY681□4410	681	0.00068	I,J,K,M	440	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1XY681□4415	681	0.00068	I,J,K,M	440	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY821□4475	821	0.00082	I,J,K,M	440	10.5	9.0	4.0	7.5	0.6	UL,cUL,ENEC
ME1XY821□4410	821	0.00082	I,J,K,M	440	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1XY821□4415	821	0.00082	I,J,K,M	440	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY102□4475	102	0.0010	I,J,K,M	440	10.5	9.0	4.0	7.5	0.6	UL,cUL,ENEC
ME1XY102□4410A	102	0.0010	I,J,K,M	440	13.0	9.0	4.0	10.0	0.6	UL,cUL,ENEC
ME1XY102□4410B	102	0.0010	I,J,K,M	440	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1XY102□4415	102	0.0010	I,J,K,M	440	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY122□4475	122	0.0012	I,J,K,M	440	10.5	9.0	4.0	7.5	0.6	UL,cUL,ENEC
ME1XY122□4410A	122	0.0012	I,J,K,M	440	13.0	9.0	4.0	10.0	0.6	UL,cUL,ENEC
ME1XY122□4410B	122	0.0012	I,J,K,M	440	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1XY152□4475	152	0.0015	I,J,K,M	440	10.5	9.0	4.0	7.5	0.6	UL,cUL,ENEC
ME1XY152□4410A	152	0.0015	I,J,K,M	440	13.0	9.0	4.0	10.0	0.6	UL,cUL,ENEC
ME1XY152□4410B	152	0.0015	I,J,K,M	440	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1XY152□4415	152	0.0015	I,J,K,M	440	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY182□4475	182	0.0018	I,J,K,M	440	10.5	9.0	4.0	7.5	0.6	UL,cUL,ENEC
ME1XY182□4410A	182	0.0018	I,J,K,M	440	13.0	9.0	4.0	10.0	0.6	UL,cUL,ENEC
ME1XY182□4410B	182	0.0018	I,J,K,M	440	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1XY222□4475A	222	0.0022	I,J,K,M	440	10.5	9.0	4.0	7.5	0.6	UL,cUL,ENEC
ME1XY222□4475B	222	0.0022	I,J,K,M	440	10.5	11.0	5.0	7.5	0.6	UL,cUL,ENEC
ME1XY222□4410A	222	0.0022	I,J,K,M	440	13.0	9.0	4.0	10.0	0.6	UL,cUL,ENEC
ME1XY222□4410B	222	0.0022	I,J,K,M	440	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1XY222□4415A	222	0.0022	I,J,K,M	440	17.5	9.5	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY222□4415B	222	0.0022	I,J,K,M	440	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY222□4475A	222	0.0027	I,J,K,M	440	10.5	9.0	4.0	7.5	0.6	UL,cUL,ENEC
ME1XY272□4475B	272	0.0027	I,J,K,M	440	10.5	11.0	5.0	7.5	0.6	UL,cUL,ENEC
ME1XY272□4410A	272	0.0027	I,J,K,M	440	13.0	9.0	4.0	10.0	0.6	UL,cUL,ENEC

Note: 1. □: denotes tolerance code

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## ELECTRICAL SPECIFICATION – 440VAC

Part Number	Cap Code	Cap	Tol	Volt	W	H	T	P	d	Safety
		(uF)	(%)	(V <sub>AC</sub> )	(mm)	(mm)	(mm)	(mm)	(mm)	Compliance
ME1XY272□4410B	272	0.0027	I,J,K,M	440	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1XY272□4415A	272	0.0027	I,J,K,M	440	17.5	9.5	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY272□4415B	272	0.0027	I,J,K,M	440	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY332□4475	332	0.0033	I,J,K,M	440	10.5	11.0	5.0	7.5	0.6	UL,cUL,ENEC
ME1XY332□4410A	332	0.0033	I,J,K,M	440	13.0	9.0	4.0	10.0	0.6	UL,cUL,ENEC
ME1XY332□4410B	332	0.0033	I,J,K,M	440	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1XY332□4415A	332	0.0033	I,J,K,M	440	17.5	9.5	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY332□4415B	332	0.0033	I,J,K,M	440	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY392□4475	392	0.0039	I,J,K,M	440	10.5	11.0	5.0	7.5	0.6	UL,cUL,ENEC
ME1XY392□4410A	392	0.0039	I,J,K,M	440	13.0	9.0	4.0	10.0	0.6	UL,cUL,ENEC
ME1XY392□4410B	392	0.0039	I,J,K,M	440	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1XY392□4415A	392	0.0039	I,J,K,M	440	17.5	9.5	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY392□4415B	392	0.0039	I,J,K,M	440	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY472□4475	472	0.0047	I,J,K,M	440	10.5	11.0	5.0	7.5	0.6	UL,cUL,ENEC
ME1XY472□4410	472	0.0047	I,J,K,M	440	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1XY472□4415A	472	0.0047	I,J,K,M	440	17.5	9.5	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY472□4415B	472	0.0047	I,J,K,M	440	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY562□4475	562	0.0056	I,J,K,M	440	10.5	11.0	5.0	7.5	0.6	UL,cUL,ENEC
ME1XY562□4410	562	0.0056	I,J,K,M	440	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1XY562□4415A	562	0.0056	I,J,K,M	440	17.5	9.5	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY562□4415B	562	0.0056	I,J,K,M	440	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY682□4410	682	0.0068	I,J,K,M	440	13.0	12.0	6.0	10.0	0.6	UL,cUL,ENEC
ME1XY682□4415A	682	0.0068	I,J,K,M	440	17.5	9.5	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY682□4415B	682	0.0068	I,J,K,M	440	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY822□4410	822	0.0082	I,J,K,M	440	13.0	12.0	6.0	10.0	0.6	UL,cUL,ENEC
ME1XY822□4415A	822	0.0082	I,J,K,M	440	17.5	9.5	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY822□4415B	822	0.0082	I,J,K,M	440	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY103□4410	103	0.010	I,J,K,M	440	13.0	12.0	6.0	10.0	0.6	UL,cUL,ENEC
ME1XY103□4415A	103	0.010	I,J,K,M	440	17.5	9.5	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY103□4415B	103	0.010	I,J,K,M	440	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY123□4410	123	0.012	I,J,K,M	440	13.0	12.0	6.0	10.0	0.6	UL,cUL,ENEC
ME1XY123□4415	123	0.012	I,J,K,M	440	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY153□4410	153	0.015	I,J,K,M	440	13.0	12.0	6.0	10.0	0.6	UL,cUL,ENEC
ME1XY153□4415	153	0.015	I,J,K,M	440	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1XY183□4415	183	0.018	I,J,K,M	440	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC

Note: 1. □: denotes tolerance code

# EMI Suppression Capacitors X1/Y2 Class 440VAC

ME1XY-44 Series

**MERITEK**

## ELECTRICAL SPECIFICATION – 440VAC

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□4410	223	0.022	I,J,K,M	440	13.0	13.0	7.0	10.0	0.6	UL,cUL,ENEC
ME1XY223□4415	223	0.022	I,J,K,M	440	17.5	11.0	5.5	15.0	0.6	UL,cUL,ENEC
ME1XY253□4415	253	0.025	I,J,K,M	440	18.0	12.0	6.0	15.0	0.6	UL,cUL,ENEC
ME1XY273□4410	273	0.027	I,J,K,M	440	13.0	14.0	8.0	10.0	0.6	UL,cUL,ENEC
ME1XY273□4415A	273	0.027	I,J,K,M	440	17.5	11.0	5.5	15.0	0.6	UL,cUL,ENEC
ME1XY273□4415B	273	0.027	I,J,K,M	440	18.0	12.0	6.0	15.0	0.6	UL,cUL,ENEC
ME1XY333□4410	333	0.033	I,J,K,M	440	13.0	14.0	8.0	10.0	0.6	UL,cUL,ENEC
ME1XY333□4415	333	0.033	I,J,K,M	440	18.0	12.0	6.0	15.0	0.6	UL,cUL,ENEC
ME1XY333□4422	333	0.033	I,J,K,M	440	25.0	14.5	6.0	22.5	0.8	UL,cUL,ENEC
ME1XY393□4415	393	0.039	I,J,K,M	440	18.0	13.5	6.0	15.0	0.6	UL,cUL,ENEC
ME1XY393□4422	393	0.039	I,J,K,M	440	25.0	14.5	6.0	22.5	0.8	UL,cUL,ENEC
ME1XY473□4415	473	0.047	I,J,K,M	440	18.0	13.5	6.0	15.0	0.6	UL,cUL,ENEC
ME1XY473□4422	473	0.047	I,J,K,M	440	25.0	14.5	6.0	22.5	0.8	UL,cUL,ENEC
ME1XY563□4415	563	0.056	I,J,K,M	440	17.0	15.5	7.5	15.0	0.6	UL,cUL,ENEC
ME1XY563□4422	563	0.056	I,J,K,M	440	25.0	14.5	6.0	22.5	0.8	UL,cUL,ENEC
ME1XY683□4415	683	0.068	I,J,K,M	440	17.0	15.5	7.5	15.0	0.6	UL,cUL,ENEC
ME1XY683□4422A	683	0.068	M	440	25.0	14.5	6.0	22.5	0.8	UL,cUL,ENEC
ME1XY683□4422B	683	0.068	I,J,K,M	440	26.5	16.5	7.0	22.5	0.8	UL,cUL,ENEC
ME1XY823□4415	823	0.082	I,J,K,M	440	17.0	16.5	9.5	15.0	0.6	UL,cUL,ENEC
ME1XY823□4422	823	0.082	I,J,K,M	440	26.5	16.5	7.0	22.5	0.8	UL,cUL,ENEC
ME1XY104□4415	104	0.10	I,J,K,M	440	17.0	16.5	9.5	15.0	0.6	UL,cUL,ENEC
ME1XY104□4422A	104	0.10	I,J,K,M	440	26.5	16.5	7.0	22.5	0.8	UL,cUL,ENEC
ME1XY104□4422B	104	0.10	I,J,K,M	440	26.5	29.5	14.5	22.5	0.8	UL,cUL,ENEC
ME1XY104□4427	104	0.10	I,J,K,M	440	31.5	16.5	7.5	27.5	0.8	UL,cUL,ENEC
ME1XY124□4422	124	0.12	I,J,K,M	440	26.5	17.0	8.5	22.5	0.8	UL,cUL,ENEC
ME1XY124□4427	124	0.12	I,J,K,M	440	31.0	18.0	9.0	27.5	0.8	UL,cUL,ENEC
ME1XY154□4422	154	0.15	I,J,K,M	440	26.5	19.0	10.0	22.5	0.8	UL,cUL,ENEC
ME1XY154□4427A	154	0.15	I,J,K,M	440	31.0	18.0	9.0	27.5	0.8	UL,cUL,ENEC
ME1XY154□4427B	154	0.15	I,J,K,M	440	32.0	12.0	18.0	27.5	0.8	UL,cUL,ENEC
ME1XY184□4422	184	0.18	I,J,K,M	440	26.0	20.0	11.0	22.5	0.8	UL,cUL,ENEC
ME1XY184□4427	184	0.18	I,J,K,M	440	31.5	20.0	11.0	27.5	0.8	UL,cUL,ENEC
ME1XY224□4422	224	0.22	I,J,K,M	440	26.5	21.5	12.0	22.5	0.8	UL,cUL,ENEC
ME1XY224□4427A	224	0.22	I,J,K,M	440	30.0	21.0	12.0	27.5	0.8	UL,cUL,ENEC
ME1XY224□4427B	224	0.22	I,J,K,M	440	31.5	20.0	11.0	27.5	0.8	UL,cUL,ENEC
ME1XY224□4427C	224	0.22	M	440	32.0	12.0	18.0	27.5	0.8	UL,cUL,ENEC

Note: 1. □: denotes tolerance code

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## ELECTRICAL SPECIFICATION – 440VAC

Part Number	Cap Code	Cap	Tol	Volt	W	H	T	P	d	Safety
		(uF)	(%)	(V <sub>AC</sub> )	(mm)	(mm)	(mm)	(mm)	(mm)	Compliance
ME1XY274□4422	274	0.27	I,J,K,M	440	26.5	22.5	12.5	22.5	0.8	UL,cUL,ENEC
ME1XY274□4427A	274	0.27	M	440	31.5	20.0	11.0	27.5	0.8	UL,cUL,ENEC
ME1XY274□4427B	274	0.27	I,J,K,M	440	31.5	22.5	13.0	27.5	0.8	UL,cUL,ENEC
ME1XY334□4422A	334	0.33	I,J,K,M	440	26.0	25.0	15.0	22.5	0.8	UL,cUL,ENEC
ME1XY334□4422B	334	0.33	I,J,K,M	440	26.5	29.5	14.5	22.5	0.8	UL,cUL,ENEC
ME1XY334□4427A	334	0.33	I,J,K,M	440	31.0	24.5	15.0	27.5	0.8	UL,cUL,ENEC
ME1XY334□4427B	334	0.33	M	440	31.5	22.5	13.0	27.5	0.8	UL,cUL,ENEC
ME1XY334□4427C	334	0.33	I,J,K,M	440	31.5	25.0	14.0	27.5	0.8	UL,cUL,ENEC
ME1XY334□4427D	334	0.33	M	440	32.0	12.0	22.0	27.5	0.8	UL,cUL,ENEC
ME1XY334□4432	334	0.33	I,J,K,M	440	37.0	24.0	13.5	32.5	0.8	UL,cUL,ENEC
ME1XY334□4437	334	0.33	I,J,K,M	440	41.5	22.0	12.0	37.5	1.0	UL,cUL,ENEC
ME1XY394□4422A	394	0.39	M	440	26.0	25.0	15.0	22.5	0.8	UL,cUL,ENEC
ME1XY394□4422B	394	0.39	M	440	26.5	29.5	14.5	22.5	0.8	UL,cUL,ENEC
ME1XY394□4427A	394	0.39	I,J,K,M	440	31.0	24.5	15.0	27.5	0.8	UL,cUL,ENEC
ME1XY394□4427B	394	0.39	I,J,K,M	440	32.0	28.0	14.0	27.5	0.8	UL,cUL,ENEC
ME1XY394□4432A	394	0.39	I,J,K,M	440	37.0	24.0	13.5	32.5	0.8	UL,cUL,ENEC
ME1XY394□4432B	394	0.39	M	440	37.0	24.0	13.5	32.5	0.8	UL,cUL,ENEC
ME1XY394□4437A	394	0.39	K	440	41.0	24.0	13.0	37.5	1.0	UL,cUL,ENEC
ME1XY394□4437B	394	0.39	M	440	41.5	22.0	12.0	37.5	1.0	UL,cUL,ENEC
ME1XY394□4437C	394	0.39	I,J,K,M	440	41.5	26.0	14.5	37.5	1.0	UL,cUL,ENEC
ME1XY474□4427A	474	0.47	M	440	31.0	24.5	15.0	27.5	0.8	UL,cUL,ENEC
ME1XY474□4427B	474	0.47	I,J,K,M	440	32.0	16.0	27.5	27.5	0.8	UL,cUL,ENEC
ME1XY474□4427C	474	0.47	I,J,K,M	440	32.0	28.0	18.0	27.5	0.8	UL,cUL,ENEC
ME1XY474□4427D	474	0.47	M	440	32.0	28.0	14.0	27.5	0.8	UL,cUL,ENEC
ME1XY474□4427E	474	0.47	I,J,K,M	440	32.0	30.0	15.0	27.5	0.8	UL,cUL,ENEC
ME1XY474□4432A	474	0.47	I,J,K,M	440	37.0	24.0	13.5	32.5	0.8	UL,cUL,ENEC
ME1XY474□4432B	474	0.47	I,J,K,M	440	37.0	26.5	16.0	32.5	0.8	UL,cUL,ENEC
ME1XY474□4437A	474	0.47	I,J,K,M	440	41.0	24.0	13.0	37.5	1.0	UL,cUL,ENEC
ME1XY474□4437B	474	0.47	I,J,K,M	440	41.5	26.0	14.5	37.5	1.0	UL,cUL,ENEC
ME1XY474□4437C	474	0.47	I,J,K,M	440	42.0	15.0	24.0	37.5	1.0	UL,cUL,ENEC
ME1XY564□4427A	564	0.56	I,J,K,M	440	32.0	28.0	18.0	27.5	0.8	UL,cUL,ENEC
ME1XY564□4427B	564	0.56	I,J,K,M	440	32.0	30.0	15.0	27.5	0.8	UL,cUL,ENEC
ME1XY564□4432A	564	0.56	I,J,K,M	440	37.0	26.5	16.0	32.5	0.8	UL,cUL,ENEC
ME1XY564□4432B	564	0.56	I,J,K,M	440	37.0	28.5	18.0	32.5	0.8	UL,cUL,ENEC
ME1XY564□4437A	564	0.56	I,J,K,M	440	41.5	26.0	14.5	37.5	1.0	UL,cUL,ENEC

Note: 1. □: denotes tolerance code

# EMI Suppression Capacitors X1/Y2 Class 440VAC

ME1XY-44 Series

**MERITEK**

## ELECTRICAL SPECIFICATION – 440VAC

Part Number	Cap Code	Cap	Tol	Volt	W	H	T	P	d	Safety
		(uF)	(%)	(V <sub>AC</sub> )	(mm)	(mm)	(mm)	(mm)	(mm)	Compliance
ME1XY564□4437B	564	0.56	I,J,K,M	440	42.0	28.0	14.0	37.5	1.0	UL,cUL,ENEC
ME1XY684□4427A	684	0.68	I,J,K,M	440	31.5	33.0	18.0	27.5	0.8	UL,cUL,ENEC
ME1XY684□4427B	684	0.68	I,J,K,M	440	32.0	18.5	31.0	27.5	0.8	UL,cUL,ENEC
ME1XY684□4427C	684	0.68	M	440	32.0	28.0	18.0	27.5	0.8	UL,cUL,ENEC
ME1XY684□4427D	684	0.68	I,J,K,M	440	32.0	30.0	21.0	27.5	0.8	UL,cUL,ENEC
ME1XY684□4432A	684	0.68	I,J,K,M	440	35.5	31.0	20.0	32.5	0.8	UL,cUL,ENEC
ME1XY684□4432B	684	0.68	M	440	37.0	26.5	16.0	32.5	0.8	UL,cUL,ENEC
ME1XY684□4432C	684	0.68	M	440	37.0	28.5	18.0	32.5	0.8	UL,cUL,ENEC
ME1XY684□4437A	684	0.68	M	440	41.5	26.0	14.5	37.5	1.0	UL,cUL,ENEC
ME1XY684□4437B	684	0.68	I,J,K,M	440	41.5	30.0	17.0	37.5	1.0	UL,cUL,ENEC
ME1XY684□4437C	684	0.68	M	440	42.0	28.0	14.0	37.5	1.0	UL,cUL,ENEC
ME1XY824□4427A	824	0.82	M	440	31.5	33.0	18.0	27.5	0.8	UL,cUL,ENEC
ME1XY824□4427B	824	0.82	M	440	32.0	18.5	31.0	27.5	0.8	UL,cUL,ENEC
ME1XY824□4427C	824	0.82	I,J,K,M	440	32.0	37.0	22.0	27.5	0.8	UL,cUL,ENEC
ME1XY824□4432A	824	0.82	I,J,K,M	440	35.5	31.0	20.0	32.5	0.8	UL,cUL,ENEC
ME1XY824□4432B	824	0.82	I,J,K,M	440	37.0	34.0	22.0	32.5	0.8	UL,cUL,ENEC
ME1XY824□4437A	824	0.82	I,J,K,M	440	41.5	30.0	17.0	37.5	1.0	UL,cUL,ENEC
ME1XY824□4437B	824	0.82	I,J,K,M	440	42.0	19.0	24.0	37.5	1.0	UL,cUL,ENEC
ME1XY105□4427	105	1.0	I,J,K,M	440	32.0	37.0	22.0	27.5	0.8	UL,cUL,ENEC
ME1XY105□4432A	105	1.0	I,J,K,M	440	37.0	34.0	22.0	32.5	0.8	UL,cUL,ENEC
ME1XY105□4432B	105	1.0	M	440	37.0	34.0	22.0	32.5	0.8	UL,cUL,ENEC
ME1XY105□4437A	105	1.0	I,J,K,M	440	41.0	37.0	22.0	37.5	1.0	UL,cUL,ENEC
ME1XY105□4437B	105	1.0	M	440	41.5	30.0	17.0	37.5	1.0	UL,cUL,ENEC
ME1XY105□4437C	105	1.0	M	440	41.5	32.0	19.0	37.5	1.0	UL,cUL,ENEC
ME1XY105□4437D	105	1.0	I,J,K,M	440	41.5	34.0	20.5	37.5	1.0	UL,cUL,ENEC
ME1XY105□4437E	105	1.0	I,J,K,M	440	41.5	35.5	22.5	37.5	1.0	UL,cUL,ENEC
ME1XY105□4447A	105	1.0	I,J,K,M	440	51.0	27.5	17.5	47.5	1.0	UL,cUL,ENEC
ME1XY105□4447B	105	1.0	I,J,K,M	440	51.0	30.5	20.0	47.5	1.0	UL,cUL,ENEC
ME1XY125□4437	125	1.2	I,J,K,M	440	41.5	35.5	22.5	37.5	1.0	UL,cUL,ENEC
ME1XY125□4447A	125	1.2	I,J,K,M	440	51.0	30.5	20.0	47.5	1.0	UL,cUL,ENEC
ME1XY125□4447B	125	1.2	I,J,K,M	440	51.0	34.0	22.0	47.5	1.0	UL,cUL,ENEC
ME1XY125□4451	125	1.2	I,J,K,M	440	58.0	30.0	20.5	51.5	1.0	UL,cUL,ENEC
ME1XY152□4437	152	1.5	I,J,K,M	440	41.5	41.0	27.5	37.5	1.0	UL,cUL,ENEC
ME1XY152□4447A	152	1.5	I,J,K,M	440	51.0	34.0	22.0	47.5	1.0	UL,cUL,ENEC
ME1XY152□4447B	152	1.5	I,J,K,M	440	51.0	35.0	24.0	47.5	1.0	UL,cUL,ENEC

Note: 1. □: denotes tolerance code

# EMI Suppression Capacitors X1/Y2 Class 440VAC

ME1XY-44 Series

**MERITEK**

## ELECTRICAL SPECIFICATION – 440VAC

Part Number	Cap Code	Cap	Tol	Volt	W	H	T	P	d	Safety
		(uF)	(%)	(V <sub>AC</sub> )	(mm)	(mm)	(mm)	(mm)	(mm)	Compliance
ME1XY152□4451	152	1.5	I,J,K,M	440	58.0	30.0	20.5	51.5	1.0	UL,cUL,ENEC
ME1XY185□4437A	185	1.8	I,J,K,M	440	41.5	43.0	28.0	37.5	1.0	UL,cUL,ENEC
ME1XY185□4437B	185	1.8	I,J,K,M	440	41.5	45.0	30.0	37.5	1.0	UL,cUL,ENEC
ME1XY185□4447A	185	1.8	I,J,K,M	440	51.0	35.0	24.0	47.5	1.0	UL,cUL,ENEC
ME1XY185□4447B	185	1.8	I,J,K,M	440	51.0	43.5	29.0	47.5	1.0	UL,cUL,ENEC
ME1XY185□4451	185	1.8	I,J,K,M	440	58.0	35.0	23.0	51.5	1.0	UL,cUL,ENEC
ME1XY205□4437	205	2.0	I,J,K,M	440	41.5	45.0	30.0	37.5	1.0	UL,cUL,ENEC
ME1XY205□4451	205	2.0	I,J,K,M	440	58.0	35.0	23.0	51.5	1.0	UL,cUL,ENEC
ME1XY225□4451	225	2.2	I,J,K,M	440	58.0	38.0	25.0	51.5	1.0	UL,cUL,ENEC
ME1XY255□4451	255	2.5	I,J,K,M	440	57.0	45.0	30.0	51.5	1.0	UL,cUL,ENEC
ME1XY275□4451	275	2.7	I,J,K,M	440	57.0	45.0	30.0	51.5	1.0	UL,cUL,ENEC
ME1XY305□4451	305	3.0	I,J,K,M	440	57.0	45.0	30.0	51.5	1.0	UL,cUL,ENEC
ME1XY335□4451A	335	3.3	I,J,K,M	440	57.0	30.0	44.0	51.5	1.0	UL,cUL,ENEC
ME1XY335□4451B	335	3.3	I,J,K,M	440	57.0	45.0	30.0	51.5	1.0	UL,cUL,ENEC
ME1XY395□4451	395	3.9	I,J,K,M	440	57.0	50.0	35.0	51.5	1.0	UL,cUL,ENEC
ME1XY475□4451A	475	4.7	I,J,K,M	440	57.0	50.0	35.0	51.5	1.0	UL,cUL,ENEC
ME1XY475□4451B	475	4.7	I,J,K,M	440	58.0	55.0	45.0	51.5	1.0	UL,cUL,ENEC
ME1XY475□4451C	475	4.7	I,J,K,M	440	58.0	56.5	43.0	51.5	1.0	UL,cUL,ENEC

Note: 1. □: denotes tolerance code



# EMI Suppression Capacitors X1/Y2 Class 440VAC

ME1XY-44 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	$Cr\leq 0.33\mu F$ $IR\geq 15,000M\Omega$ $Cr>0.33\mu F$ $IR\geq 5,000M\Omega*\mu F/C$																	
<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 $+1/-0$ Hrs																		
<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: $2+1/-0$ hrs each direction	Appearance : No mechanical Damage Connection: Shall be no short or open																	
<b>Soldering Heat Resistance</b>	Preheat Temperature: $100\sim 120^{\circ}C$ 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 440VAC

ME1XY-44 Series

**MERITEK**

## RELIABILTY AND TEST CONDITIONS

Item	Test Condition	Requirement
<b>Endurance</b>	Duration: 1,000 hours, Temperature: $+110 \pm 2^{\circ}\text{C}$ 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 $47\Omega \pm 5\%$ .	Appearance: No Visible Damage $\Delta C/C: \leq \pm 10\%$ of the value before test DF: $\leq 0.008$ Max at 1KHz; for $C \leq 1\mu\text{F}$ DF: $\leq 0.005$ Max at 1KHz; for $C > 1\mu\text{F}$ IR: $\geq 50\%$ of the rated value
<b>Humidity Resistance</b>	Test Temperature: $-40 \pm 2^{\circ}\text{C}$ Test Humidity: 87% to 93% R.H. Test Voltage: rated voltage Test Duration: 500 hours After test, allow it stay alone for $1.5 \pm 0.5$ hrs 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

### Notes:

1. Ambient Temp:  $15^{\circ}\text{C}$  to  $35^{\circ}\text{C}$ , Relative Humidity (R.H.): 45% to 75%, Air Pressure: 86kpa to 106kpa
2. Operating Temperature:  $-40 \sim 110^{\circ}\text{C}$
3. Storage needs to be kept indoors at  $-10 \sim +40^{\circ}\text{C}$  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.