

# EMI Suppression Capacitors X1 Class 480VAC

ME1X 480V 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

ME1X    223    K    480V    xxx  
(1)        (2)        (3)        (4)        (5)



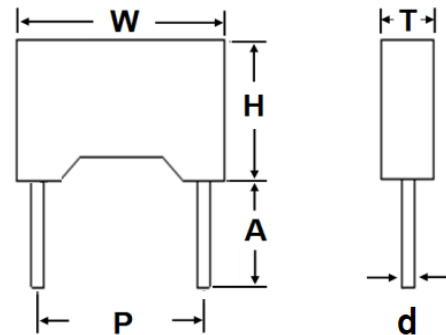
No	Item	Digit	Description	Reference
(1)	Meritek Series	ME1X	EMI Suppression Capacitors	X1 Class Safety Film Capacitor
(2)	Capacitance	223	223: 22000pF	First two digits: Significant, Third: Multiplier
(3)	Tolerance	K	K: $\pm 10\%$	$\pm 5\%$ (J), $\pm 20\%$ (M)
(4)	Rated Voltage	480V	480V: 480VAC	at 50~60Hz
(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	480VAC at 50~60Hz,	40/110/56/B
Capacitance, Tolerance	0.001 $\mu$ F ~ 10.0 $\mu$ F,	$\pm 5\%$ (J), $\pm 10\%$ (K), $\pm 20\%$ (M)
Dissipation Factor (tan $\delta$ )	$\leq 0.1\%$	at 1KHz $\pm 2\%$ , $\leq 1.0V_{RMS}$
Insulation resistance at 100V <sub>DC</sub> , Change Time: 60s $\pm 5s$	$\geq 15,000M\Omega$ (C $\leq 0.33\mu$ F)	$\geq 5,000M\Omega * \mu$ F/C (C $> 0.33\mu$ F)
Withstanding Voltage	<b>Between Terminals</b>	<b>Between Terminals and Case</b>
	4.3*U <sub>rDC</sub> for 60s	2*U <sub>r</sub> +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	
52.5	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 – 480VAC

Part Number	Cap Code	Cap	Tol	Volt	W	H	T	P	d	Safety
		(uF)	(%)	(V <sub>AC</sub> )	(mm)	(mm)	(mm)	(mm)	(mm)	Compliance
ME1X102□480V75	102	0.0010	J,K,M	480	10.5	9.0	4.0	7.5	0.6	UL, cUL, ENEC
ME1X102□480V10	102	0.0010	J,K,M	480	13.0	11.0	5.0	10.0	0.6	UL, cUL, ENEC
ME1X102□480V15	102	0.0010	J,K,M	480	18.0	11.0	5.0	15.0	0.6	UL, cUL, ENEC
ME1X152□480V75	152	0.0015	J,K,M	480	10.5	9.0	4.0	7.5	0.6	UL, cUL, ENEC
ME1X152□480V10	152	0.0015	J,K,M	480	13.0	11.0	5.0	10.0	0.6	UL, cUL, ENEC
ME1X152□480V15	152	0.0015	J,K,M	480	18.0	11.0	5.0	15.0	0.6	UL, cUL, ENEC
ME1X222□480V75	222	0.0022	J,K,M	480	10.5	9.0	4.0	7.5	0.6	UL, cUL, ENEC
ME1X222□480V10	222	0.0022	J,K,M	480	13.0	11.0	5.0	10.0	0.6	UL, cUL, ENEC
ME1X222□480V15	222	0.0022	J,K,M	480	18.0	11.0	5.0	15.0	0.6	UL, cUL, ENEC
ME1X272□480V75	272	0.0027	J,K,M	480	10.5	9.0	4.0	7.5	0.6	UL, cUL, ENEC
ME1X272□480V10	272	0.0027	J,K,M	480	13.0	11.0	5.0	10.0	0.6	UL, cUL, ENEC
ME1X272□480V15	272	0.0027	J,K,M	480	18.0	11.0	5.0	15.0	0.6	UL, cUL, ENEC
ME1X332□480V75	332	0.0033	J,K,M	480	10.5	9.0	4.0	7.5	0.6	UL, cUL, ENEC
ME1X332□480V10	332	0.0033	J,K,M	480	13.0	11.0	5.0	10.0	0.6	UL, cUL, ENEC
ME1X332□480V15	332	0.0033	J,K,M	480	18.0	11.0	5.0	15.0	0.6	UL, cUL, ENEC
ME1X392□480V75	392	0.0039	J,K,M	480	10.5	9.0	4.0	7.5	0.6	UL, cUL, ENEC
ME1X392□480V10	392	0.0039	J,K,M	480	13.0	11.0	5.0	10.0	0.6	UL, cUL, ENEC
ME1X392□480V15	392	0.0039	J,K,M	480	18.0	11.0	5.0	15.0	0.6	UL, cUL, ENEC
ME1X472□480V75	472	0.0047	J,K,M	480	10.5	9.0	4.0	7.5	0.6	UL, cUL, ENEC
ME1X472□480V10	472	0.0047	J,K,M	480	13.0	11.0	5.0	10.0	0.6	UL, cUL, ENEC
ME1X472□480V15	472	0.0047	J,K,M	480	18.0	11.0	5.0	15.0	0.6	UL, cUL, ENEC
ME1X562□480V75	562	0.0056	J,K,M	480	10.5	9.0	4.0	7.5	0.6	UL, cUL, ENEC
ME1X562□480V10	562	0.0056	J,K,M	480	13.0	11.0	5.0	10.0	0.6	UL, cUL, ENEC
ME1X562□480V15	562	0.0056	J,K,M	480	18.0	11.0	5.0	15.0	0.6	UL, cUL, ENEC
ME1X682□480V75	682	0.0068	J,K,M	480	10.5	11.0	5.0	7.5	0.6	UL, cUL, ENEC
ME1X682□480V10	682	0.0068	J,K,M	480	13.0	11.0	5.0	10.0	0.6	UL, cUL, ENEC
ME1X682□480V15	682	0.0068	J,K,M	480	18.0	11.0	5.0	15.0	0.6	UL, cUL, ENEC
ME1X8222□480V75	8222	0.0082	J,K,M	480	10.5	11.0	5.0	7.5	0.6	UL, cUL, ENEC
ME1X8222□480V10	8222	0.0082	J,K,M	480	13.0	11.0	5.0	10.0	0.6	UL, cUL, ENEC
ME1X8222□480V15	8222	0.0082	J,K,M	480	18.0	11.0	5.0	15.0	0.6	UL, cUL, ENEC
ME1X103□480V75	103	0.010	J,K,M	480	10.5	11.0	5.0	7.5	0.6	UL, cUL, ENEC
ME1X103□480V10	103	0.010	J,K,M	480	13.0	11.0	5.0	10.0	0.6	UL, cUL, ENEC
ME1X103□480V15	103	0.010	J,K,M	480	18.0	11.0	5.0	15.0	0.6	UL, cUL, ENEC
ME1X123□480V75	123	0.012	J,K,M	480	10.5	12.0	6.0	7.5	0.6	UL, cUL, ENEC
ME1X123□480V10	123	0.012	J,K,M	480	13.0	11.0	5.0	10.0	0.6	UL, cUL, ENEC

Note: 1. □: denotes tolerance code; 2. Contact Meritek for Part Number on options on lead: diameter, length, and/or forming.

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ME1X 480V Series

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## ELECTRICAL SPECIFICATION – 480VAC

Part Number	Cap Code	Cap	Tol	Volt	W	H	T	P	d	Safety
		(uF)	(%)	(V <sub>AC</sub> )	(mm)	(mm)	(mm)	(mm)	(mm)	Compliance
ME1X123□480V15	123	0.012	J,K,M	480	18.0	11.0	5.0	15.0	0.6	UL, cUL, ENEC
ME1X153□480V75	153	0.015	M	480	10.5	12.0	6.0	7.5	0.6	UL, cUL, ENEC
ME1X153□480V10	153	0.015	J,K,M	480	13.0	11.0	5.0	10.0	0.6	UL, cUL, ENEC
ME1X153□480V15	153	0.015	J,K,M	480	18.0	11.0	5.0	15.0	0.6	UL, cUL, ENEC
ME1X183□480V10	183	0.018	J,K,M	480	13.0	11.0	5.0	10.0	0.6	UL, cUL, ENEC
ME1X183□480V15	183	0.018	J,K,M	480	18.0	11.0	5.0	15.0	0.6	UL, cUL, ENEC
ME1X223□480V10	223	0.022	J,K,M	480	13.0	11.0	5.0	10.0	0.6	UL, cUL, ENEC
ME1X223□480V15	223	0.022	J,K,M	480	18.0	11.0	5.0	15.0	0.6	UL, cUL, ENEC
ME1X273□480V10	273	0.027	J,K,M	480	13.0	12.0	6.0	10.0	0.6	UL, cUL, ENEC
ME1X273□480V15	273	0.027	J,K,M	480	18.0	11.0	5.0	15.0	0.6	UL, cUL, ENEC
ME1X333□480V10	333	0.033	J,K,M	480	13.0	12.0	6.0	10.0	0.6	UL, cUL, ENEC
ME1X333□480V15	333	0.033	J,K,M	480	18.0	11.0	5.0	15.0	0.6	UL, cUL, ENEC
ME1X393□480V10	393	0.039	J,K,M	480	13.0	13.0	7.0	10.0	0.6	UL, cUL, ENEC
ME1X393□480V15	393	0.039	J,K,M	480	18.0	12.0	6.0	15.0	0.6	UL, cUL, ENEC
ME1X393□480V22	393	0.039	J,K,M	480	25.0	14.5	6.0	22.5	0.8	UL, cUL, ENEC
ME1X473□480V10	473	0.047	M	480	13.0	13.0	7.0	10.0	0.6	UL, cUL, ENEC
ME1X473□480V15	473	0.047	J,K,M	480	18.0	12.0	6.0	15.0	0.6	UL, cUL, ENEC
ME1X473□480V22	473	0.047	J,K,M	480	25.0	14.5	6.0	22.5	0.8	UL, cUL, ENEC
ME1X563□480V10	563	0.056	J,K,M	480	13.0	14.0	8.0	10.0	0.6	UL, cUL, ENEC
ME1X563□480V15	563	0.056	M	480	18.0	12.0	6.0	15.0	0.6	UL, cUL, ENEC
ME1X563□480V15	563	0.056	J,K,M	480	18.0	13.5	6.0	15.0	0.6	UL, cUL, ENEC
ME1X563□480V22	563	0.056	J,K,M	480	25.0	14.5	6.0	22.5	0.8	UL, cUL, ENEC
ME1X683□480V15	683	0.068	J,K,M	480	17.0	15.5	7.5	15.0	0.6	UL, cUL, ENEC
ME1X683□480V22	683	0.068	J,K,M	480	25.0	14.5	6.0	22.5	0.8	UL, cUL, ENEC
ME1X823□480V15	823	0.082	J,K,M	480	17.0	15.5	7.5	15.0	0.6	UL, cUL, ENEC
ME1X823□480V22	823	0.082	J,K,M	480	25.0	14.5	6.0	22.5	0.8	UL, cUL, ENEC
ME1X104□480V15A	104	0.10	M	480	17.0	15.5	7.5	15.0	0.6	UL, cUL, ENEC
ME1X104□480V15B	104	0.10	J,K,M	480	18.0	14.5	8.5	15.0	0.6	UL, cUL, ENEC
ME1X104□480V22	104	0.10	J,K,M	480	25.0	14.5	6.0	22.5	0.8	UL, cUL, ENEC
ME1X124□480V15	124	0.12	J,K,M	480	17.0	16.5	9.5	15.0	0.6	UL, cUL, ENEC
ME1X124□480V22	124	0.12	J,K,M	480	25.0	14.5	6.0	22.5	0.8	UL, cUL, ENEC
ME1X154□480V15A	154	0.15	M	480	17.0	16.5	9.5	15.0	0.6	UL, cUL, ENEC
ME1X154□480V15B	154	0.15	J,K,M	480	17.0	19.0	11.0	15.0	0.6	UL, cUL, ENEC
ME1X154□480V22	154	0.15	J,K,M	480	26.5	16.5	7.0	22.5	0.8	UL, cUL, ENEC
ME1X154□480V27	154	0.15	J,K,M	480	31.5	16.5	7.5	27.5	0.8	UL, cUL, ENEC

Note: 1. □: denotes tolerance code; 2. Contact Meritek for Part Number on options on lead: diameter, length, and/or forming.

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ME1X 480V Series

**MERITEK**

## ELECTRICAL SPECIFICATION – 480VAC

Part Number	Cap Code	Cap	Tol	Volt	W	H	T	P	d	Safety
		(uF)	(%)	(V <sub>AC</sub> )	(mm)	(mm)	(mm)	(mm)	(mm)	Compliance
ME1X184□480V15	184	0.18	J,K,M	480	17.0	19.0	11.0	15.0	0.6	UL, cUL, ENEC
ME1X184□480V22	184	0.18	J,K,M	480	26.5	17.5	8.5	22.5	0.8	UL, cUL, ENEC
ME1X184□480V27	184	0.18	J,K,M	480	31.5	16.5	7.5	27.5	0.8	UL, cUL, ENEC
ME1X224□480V22	224	0.22	J,K,M	480	26.5	17.5	8.5	22.5	0.8	UL, cUL, ENEC
ME1X224□480V27	224	0.22	J,K,M	480	32.0	18.0	9.0	27.5	0.8	UL, cUL, ENEC
ME1X274□480V22	274	0.27	J,K,M	480	26.5	19.0	10.0	22.5	0.8	UL, cUL, ENEC
ME1X274□480V27	274	0.27	J,K,M	480	32.0	18.0	9.0	27.5	0.8	UL, cUL, ENEC
ME1X304□480V37	304	0.30	J,K,M	480	41.0	22.0	11.0	37.5	1.0	UL, cUL, ENEC
ME1X334□480V37	334	0.33	J,K,M	480	41.0	22.0	11.0	37.5	1.0	UL, cUL, ENEC
ME1X334□480V22	334	0.33	J,K,M	480	26.0	20.0	11.0	22.5	0.8	UL, cUL, ENEC
ME1X334□480V27A	334	0.33	J,K,M	480	31.5	20.0	11.0	27.5	0.8	UL, cUL, ENEC
ME1X334□480V27B	334	0.33	J,K,M	480	32.0	12.0	18.0	27.5	0.8	UL, cUL, ENEC
ME1X334□480V32	334	0.33	J,K,M	480	37.0	24.0	13.5	32.5	0.8	UL, cUL, ENEC
ME1X394□480V22	394	0.39	J,K,M	480	26.0	20.0	11.0	22.5	0.8	UL, cUL, ENEC
ME1X394□480V27	394	0.39	J,K,M	480	31.5	20.0	11.0	27.5	0.8	UL, cUL, ENEC
ME1X394□480V32	394	0.39	J,K,M	480	37.0	24.0	13.5	32.5	0.8	UL, cUL, ENEC
ME1X394□480V37	394	0.39	J,K,M	480	41.0	22.0	11.0	37.5	1.0	UL, cUL, ENEC
ME1X404□480V37	404	0.40	J,K,M	480	41.0	22.0	11.0	37.5	1.0	UL, cUL, ENEC
ME1X474□480V22A	474	0.47	M	480	26.0	21.5	12.0	22.5	0.8	UL, cUL, ENEC
ME1X474□480V22B	474	0.47	J,K,M	480	25.0	23.5	14.0	22.5	0.8	UL, cUL, ENEC
ME1X474□480V27A	474	0.47	M	480	31.5	20.0	11.0	27.5	0.8	UL, cUL, ENEC
ME1X474□480V27B	474	0.47	J,K,M	480	32.0	22.0	12.0	27.5	0.8	UL, cUL, ENEC
ME1X474□480V32	474	0.47	J,K,M	480	37.0	24.0	13.5	32.5	0.8	UL, cUL, ENEC
ME1X474□480V37	474	0.47	J,K,M	480	41.0	22.0	11.0	37.5	1.0	UL, cUL, ENEC
ME1X504□480V37	504	0.50	J,K,M	480	41.0	22.0	11.0	37.5	1.0	UL, cUL, ENEC
ME1X524□480V22	524	0.52	J,K,M	480	25.0	23.5	14.0	22.5	0.8	UL, cUL, ENEC
ME1X564□480V22A	564	0.56	M	480	25.0	23.5	14.0	22.5	0.8	UL, cUL, ENEC
ME1X564□480V22B	564	0.56	J,K,M	480	26.0	25.0	15.0	22.5	0.8	UL, cUL, ENEC
ME1X564□480V27	564	0.56	J,K,M	480	31.5	22.5	13.0	27.5	0.8	UL, cUL, ENEC
ME1X564□480V32	564	0.56	J,K,M	480	37.0	24.0	13.5	32.5	0.8	UL, cUL, ENEC
ME1X564□480V37	564	0.56	J,K,M	480	41.0	22.0	11.0	37.5	1.0	UL, cUL, ENEC
ME1X604□480V27	604	0.60	J,K,M	480	31.5	25.0	14.0	27.5	0.8	UL, cUL, ENEC
ME1X684□480V22	684	0.68	M	480	26.0	25.0	15.0	22.5	0.8	UL, cUL, ENEC
ME1X684□480V27A	684	0.68	M	480	31.5	22.5	13.0	27.5	0.8	UL, cUL, ENEC
ME1X684□480V27B	684	0.68	J,K,M	480	31.5	25.0	14.0	27.5	0.8	UL, cUL, ENEC

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## ELECTRICAL SPECIFICATION – 480VAC

Part Number	Cap Code	Cap	Tol	Volt	W	H	T	P	d	Safety
		(uF)	(%)	(V <sub>AC</sub> )	(mm)	(mm)	(mm)	(mm)	(mm)	Compliance
ME1X684□480V27C	684	0.68	J,K,M	480	32.0	16.0	22.0	27.5	0.8	UL, cUL, ENEC
ME1X684□480V32	684	0.68	J,K,M	480	37.0	24.0	13.5	32.5	0.8	UL, cUL, ENEC
ME1X684□480V37	684	0.68	J,K,M	480	41.0	22.0	11.0	37.5	1.0	UL, cUL, ENEC
ME1X804□480V32	804	0.80	J,K,M	480	37.0	26.5	16.0	32.5	0.8	UL, cUL, ENEC
ME1X824□480V27A	824	0.82	M	480	31.5	25.0	14.0	27.5	0.8	UL, cUL, ENEC
ME1X824□480V27B	824	0.82	J,K,M	480	32.0	28.0	14.0	27.5	0.8	UL, cUL, ENEC
ME1X824□480V32	824	0.82	M	480	37.0	24.0	13.5	32.5	0.8	UL, cUL, ENEC
ME1X824□480V37A	824	0.82	M	480	41.0	22.0	11.0	37.5	1.0	UL, cUL, ENEC
ME1X824□480V37B	824	0.82	J,K,M	480	41.0	26.0	12.0	37.5	1.0	UL, cUL, ENEC
ME1X105□480V27A	105	1.0	M	480	32.0	16.0	27.5	27.5	0.8	UL, cUL, ENEC
ME1X105□480V27B	105	1.0	J,K,M	480	32.0	18.5	31.0	27.5	0.8	UL, cUL, ENEC
ME1X105□480V27C	105	1.0	J,K,M	480	32.0	28.0	18.0	27.5	0.8	UL, cUL, ENEC
ME1X105□480V32A	105	1.0	M	480	37.0	26.5	16.0	32.5	0.8	UL, cUL, ENEC
ME1X105□480V32B	105	1.0	J,K,M	480	37.0	28.5	18.0	32.5	0.8	UL, cUL, ENEC
ME1X105□480V37A	105	1.0	J,K,M	480	41.0	26.0	12.0	37.5	1.0	UL, cUL, ENEC
ME1X105□480V37B	105	1.0	J,K,M	480	42.0	15.0	24.0	37.5	1.0	UL, cUL, ENEC
ME1X125□480V27A	125	1.2	M	480	32.0	28.0	18.0	27.5	0.8	UL, cUL, ENEC
ME1X125□480V27B	125	1.2	J,K,M	480	32.0	29.0	19.0	27.5	0.8	UL, cUL, ENEC
ME1X125□480V32A	125	1.2	M	480	37.0	28.5	18.0	32.5	0.8	UL, cUL, ENEC
ME1X125□480V32B	125	1.2	J,K,M	480	35.5	31.0	20.0	32.5	0.8	UL, cUL, ENEC
ME1X125□480V37A	125	1.2	J,K,M	480	41.0	26.0	15.0	37.5	1.0	UL, cUL, ENEC
ME1X125□480V37B	125	1.2	J,K,M	480	41.0	28.0	14.0	37.5	1.0	UL, cUL, ENEC
ME1X155□480V27A	155	1.5	M	480	32.0	29.0	19.0	27.5	0.8	UL, cUL, ENEC
ME1X155□480V27B	155	1.5	M	480	32.0	18.5	31.0	27.5	0.8	UL, cUL, ENEC
ME1X155□480V27C	155	1.5	J,K,M	480	31.0	31.0	22.0	27.5	0.8	UL, cUL, ENEC
ME1X155□480V32A	155	1.5	M	480	35.5	31.0	20.0	32.5	0.8	UL, cUL, ENEC
ME1X155□480V32B	155	1.5	J,K,M	480	37.0	34.0	22.0	32.5	0.8	UL, cUL, ENEC
ME1X155□480V37A	155	1.5	M	480	41.0	28.0	14.0	37.5	1.0	UL, cUL, ENEC
ME1X155□480V37B	155	1.5	M	480	41.0	26.0	15.0	37.5	1.0	UL, cUL, ENEC
ME1X155□480V37C	155	1.5	J,K,M	480	41.0	30.0	16.0	37.5	1.0	UL, cUL, ENEC
ME1X155□480V37D	155	1.5	J,K,M	480	42.0	19.0	24.0	37.5	1.0	UL, cUL, ENEC
ME1X185□480V27	185	1.8	J,K,M	480	32.0	37.0	22.0	27.5	0.8	UL, cUL, ENEC
ME1X185□480V32	185	1.8	J,K,M	480	37.0	34.0	22.0	32.5	0.8	UL, cUL, ENEC
ME1X185□480V37A	185	1.8	M	480	41.0	30.0	16.0	37.5	1.0	UL, cUL, ENEC
ME1X185□480V37B	185	1.8	J,K,M	480	41.0	32.0	17.0	37.5	1.0	UL, cUL, ENEC

Note: 1. □: denotes tolerance code; 2. Contact Meritek for Part Number on options on lead: diameter, length, and/or forming.

# EMI Suppression Capacitors X1 Class 480VAC

ME1X 480V Series

**MERITEK**

## ELECTRICAL SPECIFICATION – 480VAC

Part Number	Cap Code	Cap	Tol	Volt	W	H	T	P	d	Safety
		(uF)	(%)	(V <sub>AC</sub> )	(mm)	(mm)	(mm)	(mm)	(mm)	Compliance
ME1X225□480V27	225	2.2	M	480	32.0	37.0	22.0	27.5	0.8	UL, cUL, ENEC
ME1X225□480V32	225	2.2	M	480	37.0	34.0	22.0	32.5	0.8	UL, cUL, ENEC
ME1X225□480V37A	225	2.2	M	480	41.0	32.0	17.0	37.5	1.0	UL, cUL, ENEC
ME1X225□480V37B	225	2.2	J,K,M	480	41.0	33.5	19.5	37.5	1.0	UL, cUL, ENEC
ME1X275□480V37	275	2.7	J,K,M	480	41.0	37.0	22.0	37.5	1.0	UL, cUL, ENEC
ME1X335□480V37A	335	3.3	M	480	41.0	37.0	22.0	37.5	1.0	UL, cUL, ENEC
ME1X335□480V37B	335	3.3	J,K,M	480	41.5	41.0	27.5	37.5	1.0	UL, cUL, ENEC
ME1X395□480V37	395	3.9	J,K,M	480	41.0	43.0	28.0	37.5	1.0	UL, cUL, ENEC
ME1X445□480V37	445	4.4	J,K,M	480	41.0	43.0	28.0	37.5	1.0	UL, cUL, ENEC
ME1X445□480V47	445	4.4	J,K,M	480	51.0	43.5	29.0	47.5	1.0	UL, cUL, ENEC
ME1X445□480V52	445	4.4	J,K,M	480	57.0	38.0	24.0	52.5	1.0	UL, cUL, ENEC
ME1X475□480V37A	475	4.7	M	480	41.0	43.0	28.0	37.5	1.0	UL, cUL, ENEC
ME1X475□480V37B	475	4.7	J,K,M	480	42.0	45.0	30.0	37.5	1.0	UL, cUL, ENEC
ME1X475□480V47	475	4.7	J,K,M	480	51.0	43.5	29.0	47.5	1.0	UL, cUL, ENEC
ME1X475□480V52	475	4.7	J,K,M	480	57.0	38.0	24.0	52.5	1.0	UL, cUL, ENEC
ME1X565□480V47	565	5.6	M	480	51.0	43.5	29.0	47.5	1.0	UL, cUL, ENEC
ME1X565□480V52A	565	5.6	M	480	57.0	38.0	24.0	52.5	1.0	UL, cUL, ENEC
ME1X565□480V52B	565	5.6	J,K,M	480	57.0	45.0	30.0	52.5	1.0	UL, cUL, ENEC
ME1X685□480V47	685	6.8	J,K,M	480	51.0	49.5	35.0	47.5	1.0	UL, cUL, ENEC
ME1X685□480V52A	685	6.8	J,K,M	480	57.0	50.0	35.0	52.5	1.0	UL, cUL, ENEC
ME1X685□480V52B	685	6.8	M	480	57.0	45.0	30.0	52.5	1.0	UL, cUL, ENEC
ME1X685□480V52C	685	6.8	M	480	57.0	30.0	44.0	52.5	1.0	UL, cUL, ENEC
ME1X825□480V47	825	8.2	M	480	51.0	49.5	35.0	47.5	1.0	UL, cUL, ENEC
ME1X825□480V52	825	8.2	J,K,M	480	57.0	50.0	35.0	52.5	1.0	UL, cUL, ENEC
ME1X106□480V52A	106	10.0	M	480	57.0	50.0	35.0	52.5	1.0	UL, cUL, ENEC
ME1X106□480V52B	106	10.0	J,K,M	480	57.0	55.0	45.0	52.5	1.0	UL, cUL, ENEC

Note: 1. □: denotes tolerance code; 2. Contact Meritek for Part Number on options on lead: diameter, length, and/or forming.

## RELIABILITY AND TEST CONDITIONS

Item	Test Condition	Requirement
Capacitance	Measuring Frequency: ±2%, Measuring Voltage: ≤1Vrms.	Within the tolerance specified, at +20±5°C
Withstand Voltage - Between Terminals	Apply 4.3 times of rated voltage for 60s	Within specified limits
Withstand Voltage - Between Terminals & Enclosure	Apply 2 times of rated voltage 1.5KV <sub>AC</sub> for 2~5s; Min. 2KV <sub>AC</sub>	Within specified limits
Dissipation Factor	Measuring Frequency: ±2%, Measuring Voltage: ≤1Vrms.	D.F. : ≤0.001(0.1%) at 1KHz

# EMI Suppression Capacitors X1 Class 480VAC

ME1X 480V Series

**MERITEK**

## RELIABILTY AND TEST CONDITIONS

Item	Test Condition	Requirement																	
<b>Insulation resistance</b>	Measured at 100V, 60±5 Sec	Cr≤0.33uF IR≥15,000MΩ Cr>0.33uF IR≥5,000MΩ*uF/C																	
<b>Solderability</b>	Soldering temperature: +235±5°C Immersion duration: 2±0.5sec	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±1sec to the terminal in the axial direction and acting in a direction away from the body.	Shall be no abnormality																	
<b>Damp Heat</b>	Temperature: +40°C ± 2°C, Relative Humidity: 90%~95% Time: 56days; After test, let rest for 1.5±0.5hr 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																	
<b>Dry Heat Resistance</b>	Temperature: 110°C ± 2°C, Times: 16 +1/-0Hrs																		
<b>Cold Resistance</b>	Temperature: -40±3°C, Times: 2±1Hrs																		
<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>+20±2°C</td> <td>3 min</td> </tr> <tr> <td>2</td> <td>-40±3°C</td> <td>30min</td> </tr> <tr> <td>3</td> <td>+20±2°C</td> <td>3 min</td> </tr> <tr> <td>4</td> <td>+110±2°C</td> <td>30min</td> </tr> <tr> <td>5</td> <td>+20±2°C</td> <td>3 min</td> </tr> </tbody> </table>		Cycle	Temperature	Time	1	+20±2°C	3 min	2	-40±3°C	30min	3	+20±2°C	3 min	4	+110±2°C	30min	5	+20±2°C
	Cycle	Temperature	Time																
	1	+20±2°C	3 min																
	2	-40±3°C	30min																
3	+20±2°C	3 min																	
4	+110±2°C	30min																	
5	+20±2°C	3 min																	
After test, let rest for 1.5±0.5hr at ordinary condition before making measurements.																			
<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°C/sec max Soldering Temperature: +260±5°C Immersion Duration: 5±1sec Immersion Depth: 4±0.8mm from roots 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: ≤ ±3% of the value before test DF: ≤ 0.002 (0.2%) Max at 1KHz IR: ≥ 50% of the rated value																	
<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:

- Ambient Temp: 15°C to 35°C, Relative Humidity (R.H.): 45% to 75%, Air Pressure: 86kpa to 106kpa
- Operating Temperature: -40~110°C
- 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
- Do not apply and exceeding vibration, shock (dropping) and pressure

\*Specifications subject to change without notice.