

EMI Suppression Capacitors X1 Class 800VDC

ME1X-800D 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 800D xxx
(1) (2) (3) (4) (5)



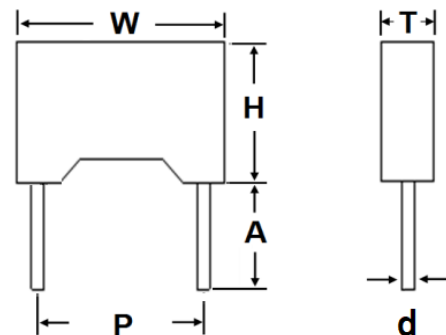
No	Item	Digit	Description	Reference
(1)	Meritek Series	ME1X	EMI Suppression Capacitors	X1 Class Safety Film Capacitor
(2)	Capacitance	223	223: 22000pF	First two digits: Significant, Third: Multiplier
(3)	Tolerance	K	K: ±10%	±5% (J), ±20% (M)
(4)	Rated Voltage	800D	800D: 800VDC	1K0D: 1000VDC, 1K3D: 1350VDC
(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	800VDC	40/110/56/B
Capacitance, Tolerance	0.001μF ~ 10.0μF	±5% (J), ±10% (K), ±20% (M)
Dissipation Factor (tan δ)	≤0.1%	at 1KHz ±2%, ≤1.0V _{RMS}
Insulation resistance at 100V _{DC} , Change Time: 60s ±5s	≥ 15,000MΩ (C≤0.33μF)	≥ 5,000MΩ*μF/C (C>0.33μF)
Withstanding Voltage	Between Terminals	Between Terminals and Case
	4.3*U _{rDC} for 60s	2*U _r +1.5KV _{AC} for 2~5s, Min 2KV _{AC}

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 – 800VDC

Part Number	Cap Code	Cap	Tol	Volt	W	H	T	P	d	Safety
		(uF)	(%)	(V _{DC})	(mm)	(mm)	(mm)	(mm)	(mm)	Compliance
ME1X102□800D75	102	0.0010	J,K,M	800	10.5	9.0	4.0	7.5	0.6	UL,cUL,ENEC
ME1X102□800D10	102	0.0010	J,K,M	800	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1X102□800D15	102	0.0010	J,K,M	800	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1X152□800D75	152	0.0015	J,K,M	800	10.5	9.0	4.0	7.5	0.6	UL,cUL,ENEC
ME1X152□800D10	152	0.0015	J,K,M	800	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1X152□800D15	152	0.0015	J,K,M	800	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1X222□800D75	222	0.0022	J,K,M	800	10.5	9.0	4.0	7.5	0.6	UL,cUL,ENEC
ME1X222□800D10	222	0.0022	J,K,M	800	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1X222□800D15	222	0.0022	J,K,M	800	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1X272□800D75	272	0.0027	J,K,M	800	10.5	9.0	4.0	7.5	0.6	UL,cUL,ENEC
ME1X272□800D10	272	0.0027	J,K,M	800	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1X272□800D15	272	0.0027	J,K,M	800	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1X332□800D75	332	0.0033	J,K,M	800	10.5	9.0	4.0	7.5	0.6	UL,cUL,ENEC
ME1X332□800D10	332	0.0033	J,K,M	800	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1X332□800D15	332	0.0033	J,K,M	800	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1X392□800D75	392	0.0039	J,K,M	800	10.5	9.0	4.0	7.5	0.6	UL,cUL,ENEC
ME1X392□800D10	392	0.0039	J,K,M	800	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1X392□800D15	392	0.0039	J,K,M	800	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1X472□800D75	472	0.0047	J,K,M	800	10.5	9.0	4.0	7.5	0.6	UL,cUL,ENEC
ME1X472□800D10	472	0.0047	J,K,M	800	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1X472□800D15	472	0.0047	J,K,M	800	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1X562□800D75	562	0.0056	J,K,M	800	10.5	9.0	4.0	7.5	0.6	UL,cUL,ENEC
ME1X562□800D10	562	0.0056	J,K,M	800	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1X562□800D15	562	0.0056	J,K,M	800	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1X682□800D75	682	0.0068	J,K,M	800	10.5	11.0	5.0	7.5	0.6	UL,cUL,ENEC
ME1X682□800D10	682	0.0068	J,K,M	800	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1X682□800D15	682	0.0068	J,K,M	800	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1X882□800D75	882	0.0082	J,K,M	800	10.5	11.0	5.0	7.5	0.6	UL,cUL,ENEC
ME1X882□800D10	882	0.0082	J,K,M	800	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1X882□800D15	882	0.0082	J,K,M	800	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1X103□800D75	103	0.010	J,K,M	800	10.5	11.0	5.0	7.5	0.6	UL,cUL,ENEC
ME1X103□800D10	103	0.010	J,K,M	800	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1X103□800D15	103	0.010	J,K,M	800	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1X123□800D75	123	0.012	J,K,M	800	10.5	12.0	6.0	7.5	0.6	UL,cUL,ENEC
ME1X123□800D10	123	0.012	J,K,M	800	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC

Note: 1. □: denotes tolerance code; 2. *: Contact Meritek for Part Number

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ME1X-800D Series

MERITEK

ELECTRICAL SPECIFICATION – 800VDC

Part Number	Cap Code	Cap	Tol	Volt	W	H	T	P	d	Safety
		(uF)	(%)	(V _{DC})	(mm)	(mm)	(mm)	(mm)	(mm)	Compliance
ME1X123□800D15	123	0.012	J,K,M	800	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1X153□800D75	153	0.015	M	800	10.5	12.0	6.0	7.5	0.6	UL,cUL,ENEC
ME1X153□800D10	153	0.015	J,K,M	800	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1X153□800D15	153	0.015	J,K,M	800	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1X183□800D10	183	0.018	J,K,M	800	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1X183□800D15	183	0.018	J,K,M	800	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1X223□800D10	223	0.022	J,K,M	800	13.0	11.0	5.0	10.0	0.6	UL,cUL,ENEC
ME1X223□800D15	223	0.022	J,K,M	800	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1X273□800D10	273	0.027	J,K,M	800	13.0	12.0	6.0	10.0	0.6	UL,cUL,ENEC
ME1X273□800D15	273	0.027	J,K,M	800	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1X333□800D10	333	0.033	J,K,M	800	13.0	12.0	6.0	10.0	0.6	UL,cUL,ENEC
ME1X333□800D15	333	0.033	J,K,M	800	18.0	11.0	5.0	15.0	0.6	UL,cUL,ENEC
ME1X393□800D10	393	0.039	J,K,M	800	13.0	13.0	7.0	10.0	0.6	UL,cUL,ENEC
ME1X393□800D15	393	0.039	J,K,M	800	18.0	12.0	6.0	15.0	0.6	UL,cUL,ENEC
ME1X393□800D22	393	0.039	J,K,M	800	25.0	14.5	6.0	22.5	0.8	UL,cUL,ENEC
ME1X473□800D10	473	0.047	M	800	13.0	13.0	7.0	10.0	0.6	UL,cUL,ENEC
ME1X473□800D15	473	0.047	J,K,M	800	18.0	12.0	6.0	15.0	0.6	UL,cUL,ENEC
ME1X473□800D22	473	0.047	J,K,M	800	25.0	14.5	6.0	22.5	0.8	UL,cUL,ENEC
ME1X563□800D10	563	0.056	J,K,M	800	13.0	14.0	8.0	10.0	0.6	UL,cUL,ENEC
ME1X563□800D15A	563	0.056	M	800	18.0	12.0	6.0	15.0	0.6	UL,cUL,ENEC
ME1X563□800D15B	563	0.056	J,K,M	800	18.0	13.5	6.0	15.0	0.6	UL,cUL,ENEC
ME1X563□800D22	563	0.056	J,K,M	800	25.0	14.5	6.0	22.5	0.8	UL,cUL,ENEC
ME1X683□800D15	683	0.068	J,K,M	800	17.0	15.5	7.5	15.0	0.6	UL,cUL,ENEC
ME1X683□800D22	683	0.068	J,K,M	800	25.0	14.5	6.0	22.5	0.8	UL,cUL,ENEC
ME1X823□800D15	823	0.082	J,K,M	800	17.0	15.5	7.5	15.0	0.6	UL,cUL,ENEC
ME1X823□800D22	823	0.082	J,K,M	800	25.0	14.5	6.0	22.5	0.8	UL,cUL,ENEC
ME1X104□800D15A	104	0.10	M	800	17.0	15.5	7.5	15.0	0.6	UL,cUL,ENEC
ME1X104□800D15B	104	0.10	J,K,M	800	18.0	14.5	8.5	15.0	0.6	UL,cUL,ENEC
ME1X104□800D22	104	0.10	J,K,M	800	25.0	14.5	6.0	22.5	0.8	UL,cUL,ENEC
ME1X124□800D15	124	0.12	J,K,M	800	17.0	16.5	9.5	15.0	0.6	UL,cUL,ENEC
ME1X124□800D22	124	0.12	J,K,M	800	25.0	14.5	6.0	22.5	0.8	UL,cUL,ENEC
ME1X154□800D15A	154	0.15	M	800	17.0	16.5	9.5	15.0	0.6	UL,cUL,ENEC
ME1X154□800D15B	154	0.15	J,K,M	800	17.0	19.0	11.0	15.0	0.6	UL,cUL,ENEC
ME1X154□800D22	154	0.15	J,K,M	800	26.5	16.5	7.0	22.5	0.8	UL,cUL,ENEC
ME1X154□800D27	154	0.15	J,K,M	800	31.5	16.5	7.5	27.5	0.8	UL,cUL,ENEC

Note: 1. □: denotes tolerance code; 2. *: Contact Meritek for Part Number

EMI Suppression Capacitors X1 Class 800VDC

ME1X-800D Series

MERITEK

ELECTRICAL SPECIFICATION – 800VDC

Part Number	Cap Code	Cap	Tol	Volt	W	H	T	P	d	Safety
		(uF)	(%)	(V _{DC})	(mm)	(mm)	(mm)	(mm)	(mm)	Compliance
ME1X184□800D15	184	0.18	J,K,M	800	17.0	19.0	11.0	15.0	0.6	UL,cUL,ENEC
ME1X184□800D22	184	0.18	J,K,M	800	26.5	17.5	8.5	22.5	0.8	UL,cUL,ENEC
ME1X184□800D27	184	0.18	J,K,M	800	31.5	16.5	7.5	27.5	0.8	UL,cUL,ENEC
ME1X224□800D22	224	0.22	J,K,M	800	26.5	17.5	8.5	22.5	0.8	UL,cUL,ENEC
ME1X224□800D27	224	0.22	J,K,M	800	32.0	18.0	9.0	27.5	0.8	UL,cUL,ENEC
ME1X274□800D22	274	0.27	J,K,M	800	26.5	19.0	10.0	22.5	0.8	UL,cUL,ENEC
ME1X274□800D27	274	0.27	J,K,M	800	32.0	18.0	9.0	27.5	0.8	UL,cUL,ENEC
ME1X304□800D37	304	0.30	J,K,M	800	41.0	22.0	11.0	37.5	1.0	UL,cUL,ENEC
ME1X334□800D37	334	0.33	J,K,M	800	41.0	22.0	11.0	37.5	1.0	UL,cUL,ENEC
ME1X334□800D22	334	0.33	J,K,M	800	26.0	20.0	11.0	22.5	0.8	UL,cUL,ENEC
ME1X334□800D27A	334	0.33	J,K,M	800	31.5	20.0	11.0	27.5	0.8	UL,cUL,ENEC
ME1X334□800D27B	334	0.33	J,K,M	800	32.0	12.0	18.0	27.5	0.8	UL,cUL,ENEC
ME1X334□800D32	334	0.33	J,K,M	800	37.0	24.0	13.5	32.5	0.8	UL,cUL,ENEC
ME1X394□800D22	394	0.39	J,K,M	800	26.0	20.0	11.0	22.5	0.8	UL,cUL,ENEC
ME1X394□800D27	394	0.39	J,K,M	800	31.5	20.0	11.0	27.5	0.8	UL,cUL,ENEC
ME1X394□800D32	394	0.39	J,K,M	800	37.0	24.0	13.5	32.5	0.8	UL,cUL,ENEC
ME1X394□800D37	394	0.39	J,K,M	800	41.0	22.0	11.0	37.5	1.0	UL,cUL,ENEC
ME1X404□800D37	404	0.40	J,K,M	800	41.0	22.0	11.0	37.5	1.0	UL,cUL,ENEC
ME1X474□800D22A	474	0.47	M	800	26.0	21.5	12.0	22.5	0.8	UL,cUL,ENEC
ME1X474□800D22B	474	0.47	J,K,M	800	25.0	23.5	14.0	22.5	0.8	UL,cUL,ENEC
ME1X474□800D27A	474	0.47	M	800	31.5	20.0	11.0	27.5	0.8	UL,cUL,ENEC
ME1X474□800D27B	474	0.47	J,K,M	800	32.0	22.0	12.0	27.5	0.8	UL,cUL,ENEC
ME1X474□800D32	474	0.47	J,K,M	800	37.0	24.0	13.5	32.5	0.8	UL,cUL,ENEC
ME1X474□800D37	474	0.47	J,K,M	800	41.0	22.0	11.0	37.5	1.0	UL,cUL,ENEC
ME1X504□800D37	504	0.50	J,K,M	800	41.0	22.0	11.0	37.5	1.0	UL,cUL,ENEC
ME1X524□800D22	524	0.52	J,K,M	800	25.0	23.5	14.0	22.5	0.8	UL,cUL,ENEC
ME1X564□800D22A	564	0.56	M	800	25.0	23.5	14.0	22.5	0.8	UL,cUL,ENEC
ME1X564□800D22B	564	0.56	J,K,M	800	26.0	25.0	15.0	22.5	0.8	UL,cUL,ENEC
ME1X564□800D27	564	0.56	J,K,M	800	31.5	22.5	13.0	27.5	0.8	UL,cUL,ENEC
ME1X564□800D32	564	0.56	J,K,M	800	37.0	24.0	13.5	32.5	0.8	UL,cUL,ENEC
ME1X564□800D37	564	0.56	J,K,M	800	41.0	22.0	11.0	37.5	1.0	UL,cUL,ENEC
ME1X604□800D27	604	0.60	J,K,M	800	31.5	25.0	14.0	27.5	0.8	UL,cUL,ENEC
ME1X684□800D22	684	0.68	M	800	26.0	25.0	15.0	22.5	0.8	UL,cUL,ENEC
ME1X684□800D27A	684	0.68	M	800	31.5	22.5	13.0	27.5	0.8	UL,cUL,ENEC
ME1X684□800D27B	684	0.68	J,K,M	800	31.5	25.0	14.0	27.5	0.8	UL,cUL,ENEC

Note: 1. □: denotes tolerance code; 2. *: Contact Meritek for Part Number

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ME1X-800D Series

MERITEK

ELECTRICAL SPECIFICATION – 800VDC

Part Number	Cap Code	Cap	Tol	Volt	W	H	T	P	d	Safety
		(uF)	(%)	(V _{DC})	(mm)	(mm)	(mm)	(mm)	(mm)	Compliance
ME1X684□800D27C	684	0.68	J,K,M	800	32.0	16.0	22.0	27.5	0.8	UL,cUL,ENEC
ME1X684□800D32	684	0.68	J,K,M	800	37.0	24.0	13.5	32.5	0.8	UL,cUL,ENEC
ME1X684□800D37	684	0.68	J,K,M	800	41.0	22.0	11.0	37.5	1.0	UL,cUL,ENEC
ME1X804□800D32	804	0.80	J,K,M	800	37.0	26.5	16.0	32.5	0.8	UL,cUL,ENEC
ME1X824□800D27A	824	0.82	M	800	31.5	25.0	14.0	27.5	0.8	UL,cUL,ENEC
ME1X824□800D27B	824	0.82	J,K,M	800	32.0	28.0	14.0	27.5	0.8	UL,cUL,ENEC
ME1X824□800D32	824	0.82	M	800	37.0	24.0	13.5	32.5	0.8	UL,cUL,ENEC
ME1X824□800D37A	824	0.82	M	800	41.0	22.0	11.0	37.5	1.0	UL,cUL,ENEC
ME1X824□800D37B	824	0.82	J,K,M	800	41.0	26.0	12.0	37.5	1.0	UL,cUL,ENEC
ME1X105□800D27A	105	1.0	M	800	32.0	16.0	27.5	27.5	0.8	UL,cUL,ENEC
ME1X105□800D27B	105	1.0	J,K,M	800	32.0	18.5	31.0	27.5	0.8	UL,cUL,ENEC
ME1X105□800D27C	105	1.0	J,K,M	800	32.0	28.0	18.0	27.5	0.8	UL,cUL,ENEC
ME1X105□800D32A	105	1.0	M	800	37.0	26.5	16.0	32.5	0.8	UL,cUL,ENEC
ME1X105□800D32B	105	1.0	J,K,M	800	37.0	28.5	18.0	32.5	0.8	UL,cUL,ENEC
ME1X105□800D37A	105	1.0	J,K,M	800	41.0	26.0	12.0	37.5	1.0	UL,cUL,ENEC
ME1X105□800D37B	105	1.0	J,K,M	800	42.0	15.0	24.0	37.5	1.0	UL,cUL,ENEC
ME1X125□800D27A	125	1.2	M	800	32.0	28.0	18.0	27.5	0.8	UL,cUL,ENEC
ME1X125□800D27B	125	1.2	J,K,M	800	32.0	29.0	19.0	27.5	0.8	UL,cUL,ENEC
ME1X125□800D32A	125	1.2	M	800	37.0	28.5	18.0	32.5	0.8	UL,cUL,ENEC
ME1X125□800D32B	125	1.2	J,K,M	800	35.5	31.0	20.0	32.5	0.8	UL,cUL,ENEC
ME1X125□800D37A	125	1.2	J,K,M	800	41.0	26.0	15.0	37.5	1.0	UL,cUL,ENEC
ME1X125□800D37B	125	1.2	J,K,M	800	41.0	28.0	14.0	37.5	1.0	UL,cUL,ENEC
ME1X155□800D27A	155	1.5	M	800	32.0	29.0	19.0	27.5	0.8	UL,cUL,ENEC
ME1X155□800D27B	155	1.5	M	800	32.0	18.5	31.0	27.5	0.8	UL,cUL,ENEC
ME1X155□800D27C	155	1.5	J,K,M	800	31.0	31.0	22.0	27.5	0.8	UL,cUL,ENEC
ME1X155□800D32A	155	1.5	M	800	35.5	31.0	20.0	32.5	0.8	UL,cUL,ENEC
ME1X155□800D32B	155	1.5	J,K,M	800	37.0	34.0	22.0	32.5	0.8	UL,cUL,ENEC
ME1X155□800D37A	155	1.5	M	800	41.0	28.0	14.0	37.5	1.0	UL,cUL,ENEC
ME1X155□800D37B	155	1.5	M	800	41.0	26.0	15.0	37.5	1.0	UL,cUL,ENEC
ME1X155□800D37C	155	1.5	J,K,M	800	41.0	30.0	16.0	37.5	1.0	UL,cUL,ENEC
ME1X155□800D37D	155	1.5	J,K,M	800	42.0	19.0	24.0	37.5	1.0	UL,cUL,ENEC
ME1X185□800D27	185	1.8	J,K,M	800	32.0	37.0	22.0	27.5	0.8	UL,cUL,ENEC
ME1X185□800D32	185	1.8	J,K,M	800	37.0	34.0	22.0	32.5	0.8	UL,cUL,ENEC
ME1X185□800D37A	185	1.8	M	800	41.0	30.0	16.0	37.5	1.0	UL,cUL,ENEC
ME1X185□800D37B	185	1.8	J,K,M	800	41.0	32.0	17.0	37.5	1.0	UL,cUL,ENEC

Note: 1. □: denotes tolerance code; 2. *: Contact Meritek for Part Number

EMI Suppression Capacitors X1 Class 800VDC

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ELECTRICAL SPECIFICATION – 800VDC

Part Number	Cap Code	Cap	Tol	Volt	W	H	T	P	d	Safety
		(uF)	(%)	(V _{DC})	(mm)	(mm)	(mm)	(mm)	(mm)	Compliance
ME1X225□800D27	225	2.2	M	800	32.0	37.0	22.0	27.5	0.8	UL,cUL,ENEC
ME1X225□800D32	225	2.2	M	800	37.0	34.0	22.0	32.5	0.8	UL,cUL,ENEC
ME1X225□800D37A	225	2.2	M	800	41.0	32.0	17.0	37.5	1.0	UL,cUL,ENEC
ME1X255□800D37B	255	2.2	J,K,M	800	41.0	33.5	19.5	37.5	1.0	UL,cUL,ENEC
ME1X275□800D37	275	2.7	J,K,M	800	41.0	37.0	22.0	37.5	1.0	UL,cUL,ENEC
ME1X335□800D37A	335	3.3	M	800	41.0	37.0	22.0	37.5	1.0	UL,cUL,ENEC
ME1X335□800D37B	335	3.3	J,K,M	800	41.5	41.0	27.5	37.5	1.0	UL,cUL,ENEC
ME1X395□800D37	395	3.9	J,K,M	800	41.0	43.0	28.0	37.5	1.0	UL,cUL,ENEC
ME1X445□800D37	445	4.4	J,K,M	800	41.0	43.0	28.0	37.5	1.0	UL,cUL,ENEC
ME1X445□800D47	445	4.4	J,K,M	800	51.0	43.5	29.0	47.5	1.0	UL,cUL,ENEC
ME1X445□800D52	445	4.4	J,K,M	800	57.0	38.0	24.0	52.5	1.0	UL,cUL,ENEC
ME1X475□800D37A	475	4.7	M	800	41.0	43.0	28.0	37.5	1.0	UL,cUL,ENEC
ME1X475□800D37B	475	4.7	J,K,M	800	42.0	45.0	30.0	37.5	1.0	UL,cUL,ENEC
ME1X475□800D47	475	4.7	J,K,M	800	51.0	43.5	29.0	47.5	1.0	UL,cUL,ENEC
ME1X475□800D52	475	4.7	J,K,M	800	57.0	38.0	24.0	52.5	1.0	UL,cUL,ENEC
ME1X565□800D47	565	5.6	M	800	51.0	43.5	29.0	47.5	1.0	UL,cUL,ENEC
ME1X565□800D52A	565	5.6	M	800	57.0	38.0	24.0	52.5	1.0	UL,cUL,ENEC
ME1X565□800D52B	565	5.6	J,K,M	800	57.0	45.0	30.0	52.5	1.0	UL,cUL,ENEC
ME1X685□800D47	685	6.8	J,K,M	800	51.0	49.5	35.0	47.5	1.0	UL,cUL,ENEC
ME1X685□800D52A	685	6.8	J,K,M	800	57.0	50.0	35.0	52.5	1.0	UL,cUL,ENEC
ME1X685□800D52B	685	6.8	M	800	57.0	45.0	30.0	52.5	1.0	UL,cUL,ENEC
ME1X685□800D52C	685	6.8	M	800	57.0	30.0	44.0	52.5	1.0	UL,cUL,ENEC
ME1X825□800D47	825	8.2	M	800	51.0	49.5	35.0	47.5	1.0	UL,cUL,ENEC
ME1X825□800D52	825	8.2	J,K,M	800	57.0	50.0	35.0	52.5	1.0	UL,cUL,ENEC
ME1X106□800D52A	106	10.0	M	800	57.0	50.0	35.0	52.5	1.0	UL,cUL,ENEC
ME1X106□800D52B	106	10.0	J,K,M	800	57.0	55.0	45.0	52.5	1.0	UL,cUL,ENEC

Note: 1. □: denotes tolerance code; 2. *: Contact Meritek for Part Number

EMI Suppression Capacitors X1 Class 800VDC

ME1X-800D Series

MERITEK

RELIABILTY AND TEST CONDITIONS

Item	Test Condition	Requirement																	
Capacitance	Measuring Frequency: $\pm 2\%$, Measuring Voltage: $\leq 1V_{rms}$.	Within the tolerance specified, at $+20\pm 5^{\circ}C$																	
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 $1.5KV_{AC}$ for 2~5s; Min. $2KV_{AC}$	Within specified limits																	
Dissipation Factor	Measuring Frequency: $\pm 2\%$, Measuring Voltage: $\leq 1V_{rms}$.	DF: $\leq 0.001(0.1\%)$ at 1KHz																	
Insulation resistance	Measured at 100V, 60 \pm 5 Sec	$C_r \leq 0.33\mu F$ IR $\geq 15,000M\Omega$ $C_r > 0.33\mu F$ IR $\geq 5,000M\Omega \cdot \mu F/C$																	
Solderability	Soldering temperature: $+235\pm 5^{\circ}C$ Immersion duration: 2 \pm 0.5sec	More than 90% of circumferential surface of lead wire shall be covered with new solder																	
Tensile Terminal Strength	Apply 1.0Kg (10N) for 10 \pm 1sec to the terminal in the axial direction and acting in a direction away from the body.	Shall be no abnormality																	
Damp Heat	Temperature: $+40^{\circ}C \pm 2^{\circ}C$, Relative Humidity: 90%~95% Time: 56days; After test, let rest for 1.5 \pm 0.5hr 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																	
Dry Heat Resistance	Temperature: $110^{\circ}C \pm 2^{\circ}C$, Times: 16 +1/-0Hrs																		
Cold Resistance	Temperature: $-40\pm 3^{\circ}C$, Times: 2 \pm 1Hrs																		
Temperature Cycle	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>$+20\pm 2^{\circ}C$</td> <td>3 min</td> </tr> <tr> <td>2</td> <td>$-40\pm 3^{\circ}C$</td> <td>30min</td> </tr> <tr> <td>3</td> <td>$+20\pm 2^{\circ}C$</td> <td>3 min</td> </tr> <tr> <td>4</td> <td>$+110\pm 2^{\circ}C$</td> <td>30min</td> </tr> <tr> <td>5</td> <td>$+20\pm 2^{\circ}C$</td> <td>3 min</td> </tr> </tbody> </table> After test, let rest for 1.5 \pm 0.5hr 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																	
Vibration Resistance	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																	
Soldering Heat Resistance	Preheat Temperature: 100~120 $^{\circ}C$ Preheat Duration: 60sec max Temperature increase by 3 $^{\circ}C/sec$ max Soldering Temperature: $+260\pm 5^{\circ}C$ Immersion Duration: 5 \pm 1sec Immersion Depth: 4 \pm 0.8mm from roots After test, allow it stay alone for 1.5 \pm 0.5hrs 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 Class 800VDC

ME1X-800D Series

MERITEK

RELIABILTY AND TEST CONDITIONS

Item	Test Condition	Requirement
Endurance	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: ≤ 0.008 Max at 1KHz; for $C_r \leq 1\mu\text{F}$ DF: ≤ 0.005 Max at 1KHz; for $C_r > 1\mu\text{F}$ IR: $\geq 50\%$ of the rated value
Humidity Resistance	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 ± 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: ≤ 0.002 (0.2%) Max at 1KHz IR: $\geq 50\%$ 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: $-40 \sim 110^{\circ}\text{C}$
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.