

EMI Suppression Capacitor



MEX Series

Class-X1/300Vac/275Vac

MERITEK

FEATURES

- 10mm to 27.5mm lead pitch
- Self-healing properties
- High moisture resistance
- Over-voltage stress withstanding
- UL/CSA and European safety regulations class X1 (meet EN132400 1994/IEC384-14 2nd 1993)
- Flame retardant plastic case and epoxy resin (UL 94V-0)

SPECIFICATIONS

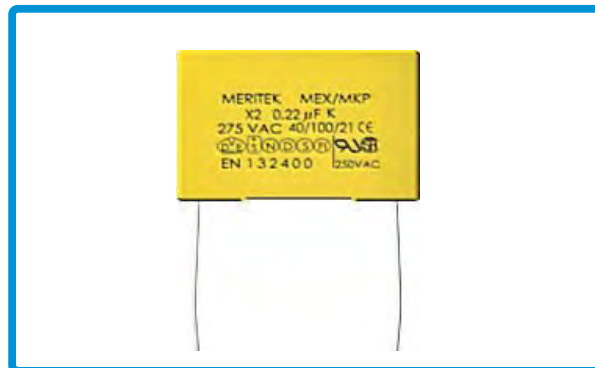
1. Operating temperature: -40°C to +100°C
2. Capacitance range: 0.001μF to 2.2μF
3. Capacitance tolerance: ±5%(J), ±10%(K), ±20%(M)
4. Rated voltage: 300Vac/275 Vac, 50/60Hz
5. Dissipation factor: 1.0% max. at 1KHz, 25°C
6. Insulation resistance: (Measured after charging 100 ±15VDC for 1 minute)
>30000MΩ (C ≤ 0.33μF)
>10000MΩ • μF (C > 0.33μF)
7. Dielectric strength: 1183VDC for 1 minute or 2kVDC for 1 sec.
8. Maximum pulse rise time: 120V/μsec. at 250VAC

PART NUMBERING SYSTEM

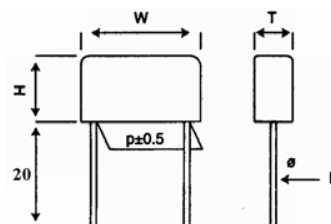
Meritek Series	MEX	474	K	275VAC
Capacitance				
CODE	103	104	105	106
(pF)	10,000	100,000		
(nF)	10	100	1000	
(μF)	0.01	0.1	1	10
Tolerance				
CODE	J	K	M	
Tolerance (%)	±5	±10	±20	
Rated Voltage 275VAC				

Optional suffix may be added to denote custom features

UL E197475 VDE 40010750



MEX are constructed with special metallized polypropylene film dielectric, tinned copper wire leads, encapsulated in plastic case with a non-inductive epoxy resin seal. They are ideal for line bypass, across-the-line, antenna coupling, spark killer circuits, switching power supply and EMI filter applications.



UF	SIZE	CODE	CASE SIZE/MM					UF	SIZE	CODE	CASE SIZE/MM				
			W	H	T	P	D				W	H	T	P	D
0.001		102	13	9	4	10	0.6	0.1		104(S)	18	11	5	15	0.8
0.0012		122	13	9	4	10	0.6	0.1		104	18	13.5	6	15	0.8
0.0015		152	13	9	4	10	0.6	0.12		124	18	14	8.5	15	0.8
0.0018		182	13	9	4	10	0.6	0.15		154	18	14.5	8.5	15	0.8
0.0022		222	13	9	4	10	0.6	0.18		184	26.5	16.5	7.0	22.5	0.8
0.0027		272	13	9	4	10	0.6	0.22		224	26.5	16.5	7.0	22.5	0.8
0.0033		332	13	9	4	10	0.6	0.27		274	26.5	17.5	8.5	22.5	0.8
0.0039		392	13	9	4	10	0.6	0.33		334	26.5	17.5	8.5	22.5	0.8
0.0047		472	13	11	5	10	0.6	0.39		394	26.5	20	10	22.5	0.8
0.0056		562	13	11	5	10	0.6	0.47		474(S)	26.5	20	10	22.5	0.8
0.0068		682	13	11	5	10	0.6	0.47		474	32	20	11	27.5	0.8
0.0082		822	13	11	5	10	0.6	0.56		564	32	20	11	27.5	0.8
0.010		103	13	11	5	10	0.6	0.68		684	32	20	11	27.5	0.8
0.012		123	13	11	5	10	0.6	0.82		824	32	22	13	27.5	0.8
0.015		153	13	11	5	10	0.6	1.0		105(S)	32	22	13	27.5	0.8
0.018		183	13	12	6	10	0.6	1.0		105	37	24	13.5	31.5	0.8
0.022		223	13	12	6	10	0.6	1.2		125	37	24	13.5	31.5	0.8
0.027		273	13	12	6	10	0.6	1.5		155(S)	32	15	30	27.5	0.8
0.033		333	13	12	6	10	0.8	1.5		155	37	26.5	16	31.5	0.8
0.039		393	13	12	6	10	0.8	1.8		185	37	28.5	18	31.5	0.8
0.047		473	13	12	6	10	0.8	2.2		225(S)	32	33	18	27.5	0.8
0.056		563	18	12	6	15	0.8	2.2		225	37	28.5	18	31.5	0.8
0.068		683	18	12	6	15	0.8	3.3		335	39	32	22	31.5	0.8
0.082		823	18	13	7.5	15	0.8	4.7		475	51	32.5	22	44.5	0.8