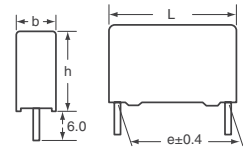




Metallized Polypropylene Film Capacitors

MKP Series



Construction: • Dielectric: Polypropylene • Stacked and wound technology • Plastic case (UL94V-0) • Epoxy resin sealing **Features:** • Very high pulse strength • Very good self-healing properties • Small dimensions • High contact reliability **Typical Applications:** • Energy-saving lamps • TV S-correction • High pulse load applications • AC applications **Terminals:** • Parallel wire leads, tinned **Technical Data:** • Lower category temperature T_{min} : -55°C • Upper category temperature T_{max} : 100°C **Service Life:** 200,000 hours

WV (DC)	WV (AC)	Cap. (µF)	Tolerance	Dimensions (mm)				Digi-Key Part No.	Pricing			Epcos Part No.		
				b	h	L	e		1	10	100			
160	90	0.10	±5%	5.0	10.5	10.0	7.5	495-1275-ND	.58	4.31	30.75	B32620A5104J		
		0.10	±5%	5.0	11.0	13.0	10.0	495-1375-ND	.65	4.76	34.00	B32621A5104J		
		0.15	±5%	6.0	12.0	10.3	7.5	495-1276-ND	.57	4.26	31.26	B32620A5154J		
		0.22	±5%	6.0	12.0	13.0	10.0	495-1278-ND	.69	5.12	37.60	B32621A5224J		
	250	140	0.0022	±5%	4.0	7.0	13.0	10.0	495-1279-ND	.41	3.01	21.50	B32621A3222J	
			0.0047	±5%	4.0	9.0	13.0	10.0	495-1281-ND	.43	3.15	22.50	B32621A3472J	
			0.0068	±5%	4.0	9.0	13.0	10.0	495-1282-ND	.44	3.22	23.00	B32621A3682J	
			0.01	±5%	4.0	9.0	13.0	10.0	495-1283-ND	.46	3.40	24.25	B32621A3103J	
		160	140	0.022	±5%	4.0	8.5	10.0	7.5	495-1286-ND	.44	3.22	23.00	B32620A3223J
				0.022	±5%	4.0	9.0	13.0	10.0	495-1285-ND	.48	3.57	25.50	B32621A3223J
				0.047	±5%	5.0	10.5	10.0	7.5	495-1290-ND	.48	3.57	25.50	B32620A3473J
				0.047	±5%	4.0	9.0	13.0	10.0	495-1289-ND	.57	4.17	29.75	B32621A3473J
400			200	0.068	±5%	5.0	11.0	13.0	10.0	495-1292-ND	.61	4.52	32.25	B32621A3683J
				0.10	±5%	6.0	12.0	10.3	7.5	495-1294-ND	.63	4.66	33.25	B32620A3104J
				0.22	±5%	6.0	11.0	18.0	15.0	495-1296-ND	.43	3.23	23.74	B32652A3224J
				0.33	±5%	7.0	12.5	18.0	15.0	495-1297-ND	.51	3.81	27.97	B32652A3334J
	630		400	0.47	±5%	8.5	14.5	18.0	15.0	495-1298-ND	.61	4.54	33.37	B32652A3474J
				0.68	±5%	9.0	17.5	18.0	15.0	495-1299-ND	.71	5.25	38.54	B32652A3684J
				0.0068	±5%	4.0	8.5	10.0	7.5	495-1300-ND	.44	3.22	23.00	B32620A4682J
				0.01	±5%	4.0	8.5	10.0	7.5	495-1301-ND	.44	3.22	23.00	B32620A4103J
		200	160	0.022	±5%	5.0	10.5	10.0	7.5	495-1305-ND	.49	3.64	26.00	B32620A4223J
				0.022	±5%	5.0	11.0	13.0	10.0	495-1306-ND	.56	4.10	29.25	B32621A4223J
				0.033	±5%	6.0	12.0	10.3	7.5	495-1308-ND	.58	4.31	30.75	B32620A4333J
				0.033	±5%	5.0	11.0	13.0	10.0	495-1307-ND	.63	4.66	33.25	B32621A4333J
400			200	0.047	±5%	6.0	12.0	13.0	10.0	495-1309-ND	.68	5.01	35.75	B32621A4473J
				0.068	±5%	5.0	10.5	18.0	15.0	495-1310-ND	.48	3.54	25.25	B32652A4683J
				0.10	±5%	5.0	10.5	18.0	15.0	495-1311-ND	.54	3.99	28.50	B32652A4104J
				0.15	±5%	6.0	11.0	18.0	15.0	495-1312-ND	.52	3.87	28.44	B32652A4154J
	630		400	0.22	±5%	7.0	12.5	18.0	15.0	495-1313-ND	.54	4.00	29.38	B32652A4224J
				0.33	±5%	8.5	14.5	18.0	15.0	495-1314-ND	.57	4.22	31.02	B32652A4334J
				0.47	±5%	9.0	17.5	18.0	15.0	495-1315-ND	.71	5.31	39.01	B32652A4474J
				0.0015	±5%	4.0	8.5	10.0	7.5	495-1316-ND	.41	3.05	21.75	B32620A6152J
		200	160	0.0022	±5%	4.0	8.5	10.0	7.5	495-1318-ND	.41	3.05	21.75	B32621A6222J
				0.0022	±5%	4.0	7.0	13.0	10.0	495-1317-ND	.39	2.91	20.75	B32621A6222J
				0.0033	±5%	4.0	9.0	13.0	10.0	495-1320-ND	.40	2.98	21.25	B32621A6332J
				0.0047	±5%	4.0	8.5	10.0	7.5	495-1322-ND	.47	3.47	24.75	B32620A6472J
400			200	0.047	±5%	4.0	9.0	13.0	10.0	495-1321-ND	.42	3.12	22.25	B32621A6472J
				0.068	±5%	5.0	10.5	10.0	7.5	495-1323-ND	.49	3.64	26.00	B32620A6682J
				0.068	±5%	4.0	9.0	13.0	10.0	495-1324-ND	.47	3.43	24.50	B32620A6682J
				0.01	±5%	5.0	10.5	10.0	7.5	495-1325-ND	.55	4.03	28.75	B32620A6103J
	630		400	0.01	±5%	4.0	9.0	13.0	10.0	495-1326-ND	.51	3.75	26.75	B32621A6103J
				0.015	±5%	6.0	12.0	10.3	7.5	495-1327-ND	.66	4.87	34.75	B32620A6153J
				0.022	±5%	6.0	12.0	13.0	10.0	495-1329-ND	.58	4.32	31.73	B32621A6223J

WV (DC)	WV (AC)	Cap. (µF)	Tolerance	Dimensions (mm)				Digi-Key Part No.	Pricing			Epcos Part No.		
				b	h	L	e		1	10	100			
630	250	0.033	±5%	5.0	10.5	18.0	15.0	495-1330-ND	.52	3.85	27.50	B32652A6333J		
		0.047	±5%	5.0	10.5	18.0	15.0	495-1331-ND	.55	4.06	29.00	B32652A6473J		
		0.10	±5%	7.0	12.5	18.0	15.0	495-1333-ND	.55	4.13	30.32	B32652A6104J		
		0.15	±5%	8.5	14.5	18.0	15.0	495-1334-ND	.68	5.06	37.13	B32652A6154J		
	250	160	0.22	±5%	6.0	9.0	17.5	18.0	495-1335-ND	.71	5.31	39.01	B32652A6224J	
			0.01	±5%	5.0	10.5	18.0	15.0	495-1349-ND	.48	3.54	25.25	B32652A1003J	
			0.022	±5%	5.0	10.5	18.0	15.0	495-1352-ND	.52	3.85	27.50	B32652A0223J	
			0.033	±5%	6.0	11.0	18.0	15.0	495-1353-ND	.57	4.24	30.25	B32652A0333J	
		1000	500	0.047	±5%	7.0	12.5	18.0	15.0	495-1354-ND	.58	4.32	31.73	B32652A0473J
				0.068	±5%	8.5	14.5	18.0	15.0	495-1355-ND	.61	4.51	33.14	B32652A0683J
				0.10	±5%	9.0	17.5	18.0	15.0	495-1356-ND	.70	5.22	38.31	B32652A0104J
				0.0015	±5%	4.0	8.5	10.0	7.5	495-1338-ND	.43	3.15	22.50	B32620A152J
500			250	0.0022	±5%	4.0	8.5	10.0	7.5	495-1339-ND	.44	3.22	23.00	B32620A222J
				0.0022	±10%	4.0	8.5	10.0	7.5	495-2889-ND	.42	3.08	22.00	B32620A222J
				0.0022	±5%	4.0	7.0	13.0	10.0	495-1340-ND	.49	3.64	26.00	B32621A222J
				0.0033	±5%	5.0	10.5	10.0	7.5	495-1343-ND	.46	3.40	24.25	B32620A332J
	600		300	0.0033	±5%	4.0	9.0	13.0	10.0	495-1342-ND	.50	3.71	26.50	B32621A332J
				0.0047	±5%	5.0	10.5	10.0	7.5	495-1346-ND	.49	3.64	26.00	B32620A472J
				0.0047	±5%	4.0	9.0	13.0	10.0	495-1344-ND	.58	4.31	30.75	B32621A472J
				0.0068	±5%	6.0	12.0	10.3	7.5	495-1347-ND	.60	4.45	31.75	B32620A682J
		1250	500	0.0068	±5%	5.0	11.0	13.0	10.0	495-1348-ND	.65	4.76	34.00	B32621A682J
				0.01	±5%	6.0	12.0	13.0	10.0	495-1350-ND	.70	5.15	36.75	B32621A103J
				0.00047	±5%	4.0	8.5	10.0	7.5	495-1336-ND	.64	4.37	30.80	B32620A471J
				0.00068	±5%	5.0	10.5	10.0	7.5	495-1337-ND	.53	3.92	28.00	B32620A81J
500			250	0.022	±5%	6.0	11.0	18.0	15.0	495-1358-ND	.54	4.00	29.38	B32652A1003J
				0.033	±5%	8.5	14.5	18.0	15.0	495-1360-ND	.64	4.74	34.78	B32652A2723J
				0.033	±5%	9.0	17.5	18.0	15.0	495-1361-ND	.71	5.31	39.01	B32652A2733J
				0.0033	±5%	5.0	10.5	18.0	15.0	495-1367-ND	.43	3.15	22.50	B32652A1332J
	1600		700	0.0047	±5%	6.0	11.0	18.0	15.0	495-1369-ND	.46	3.40	24.25	B32652A1472J
				0.0068	±5%	7.0	12.5	18.0	15.0	495-1371-ND	.46	3.42	25.15	B32652A1682J
				0.01	±5%	8.5	14.5	18.0	15.0	495-1373-ND	.58	4.32	31.73	B32652A1103J
				0.015	±5%	9.0	17.5	18.0	15.0	495-1374-ND	.70	5.22	38.31	B32652A1153J
		2000	700	0.0022	±5%	5.0	10.5	18.0	15.0	495-1364-ND	.51	3.81	27.97	B32652A1222J
				0.0033	±5%	6.0	11.0	18.0	15.0	495-1366-ND	.57	4.22	31.02	B32652A1332J
				0.0047	±5%	7.0	12.5	18.0	15.0	495-1368-ND	.61	4.51	33.14	B32652A1472J
				0.0068	±5%	8.5	14.5	18.0	15.0	495-1370-ND	.64	4.74	34.78	B32652A1682J
700			350	0.01	±5%	9.0	17.5	18.0	15.0	495-1372-ND	.71	5.31	39.01	B32652A1103J
				0.001	±5%	5.0	10.5	18.0	15.0	495-1376-ND	.53	3.92	28.00	B32652A102J
				0.0015	±5%	6.0	11.0	18.0	15.0	495-1377-ND	.55	4.06	29.00	B32652A2152J
				0.0022	±5%	7.0	12.5	18.0	15.0	495-1378-ND	.59	4.38	31.25	B32652A2222J
	2000		700	0.0033	±5%	8.5	14.5	18.0	15.0	495-1379-ND	.62	4.59	32.75	B32652A2332J



EMI Suppression Capacitors — Y2, Y1, X2, X1 Series



Y2, Y1 and X2 Specifications:

Construction: • Dielectric: Polypropylene (MKP) • Plastic case (UL 94V-0) • Epoxy resin sealing (UL 94V-0) **Features:** • Very small dimensions • Self-healing properties • High Voltage Capability **Terminals:** • Parallel wire leads (lead-free tinned)

X1 Specifications:

Construction: • Plastic case (UL 94



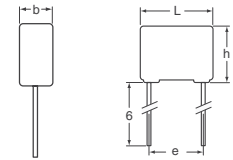
EMI Suppression Capacitors Y2, Y1, X2, X1 Series (Cont.)



WV (AC)	Cap. (µF)	Tolerance	Dimensions (mm)				Digi-Key Part No.	Pricing			Epcos Part No.
			w	h	L	e		1	10	100	
305	2.2	±20%	14.0	24.5	31.5	27.5	495-1887-ND	1.77	13.44	101.40	B32924C3225M
	2.2	±20%	14.0	25.0	41.5	37.5	495-1892-ND	2.66	20.17	152.20	B32926C3225M
	2.2	±20%	18.0	27.5	31.5	27.5	495-1826-ND	2.53	18.62	133.00	B32924A2225M
	3.3	±20%	12.0	22.0	42.0	37.5	495-3834-ND	4.89	36.02	257.25	B32926E3335M
	3.3	±20%	14.0	24.5	31.5	27.5	495-3824-ND	3.59	26.46	189.00	B32924E3335M
	3.3	±10%	14.5	29.5	26.5	22.5	495-3821-ND	3.77	27.78	198.45	B32923E3335K
	3.3	±10%	15.0	24.0	31.5	27.5	495-3825-ND	3.77	27.78	198.45	B32924F3335K
	3.3	±20%	16.0	28.5	41.5	37.5	495-1893-ND	3.35	25.33	191.20	B32926C3335M
	3.3	±20%	18.0	27.5	31.5	27.5	495-1888-ND	2.46	18.60	140.40	B32924C3335M
	3.3	±20%	18.0	32.5	41.5	37.5	495-1627-ND	3.48	26.37	199.00	B32926A2335M
	4.7	±20%	14.0	25.0	42.0	37.5	495-3835-ND	6.48	47.78	341.25	B32926E3475M
	4.7	±10%	16.0	32.0	31.5	27.5	495-3827-ND	5.24	38.59	275.63	B32924F3475K
4.7	±20%	18.0	27.5	31.5	27.5	495-3826-ND	4.99	36.75	262.50	B32924E3475M	
4.7	±20%	18.0	33.0	31.5	27.5	495-1889-ND	3.41	25.84	195.00	B32924C3475M	
4.7	±20%	18.0	32.5	41.5	37.5	495-1894-ND	4.44	33.60	253.60	B32926C3475M	
4.7	±20%	20.0	39.5	41.5	37.5	495-1828-ND	4.64	35.14	265.20	B32926A2475M	
5.6	±20%	18.0	32.5	41.5	37.5	495-1895-ND	5.46	41.34	312.00	B32926C3565M	
5.6	±10%	18.0	33.0	31.5	27.5	495-3829-ND	6.28	46.31	330.75	B32924F3825M	
5.6	±20%	22.0	36.5	31.5	27.5	495-1890-ND	4.10	31.01	234.00	B32924C3565M	
6.8	±10%	18.0	32.5	42.0	37.5	495-3836-ND	9.95	73.32	523.69	B32926E3885K	
6.8	±20%	20.0	39.5	41.5	37.5	495-1896-ND	6.49	49.10	370.60	B32926C3885M	
6.8	±20%	21.0	31.0	31.5	27.5	495-3830-ND	9.48	69.83	498.75	B32924E3885M	
6.8	±10%	22.0	36.5	31.5	27.5	495-3831-ND	9.95	73.32	523.69	B32924F3885K	
8.2	±20%	22.0	36.5	31.5	27.5	495-3832-ND	10.47	77.18	551.25	B32924E3825M	
8.2	±10%	28.0	42.5	41.5	37.5	495-1897-ND	7.53	56.98	430.00	B32926C3825K	
10	±10%	20.0	39.5	42.0	37.5	495-3837-ND	16.63	122.50	875.00	B32926E3106K	
10	±20%	28.0	42.5	41.5	37.5	495-1891-ND	8.87	67.18	507.00	B32926C106M	
15	±10%	28.0	37.0	42.0	37.5	495-3838-ND	26.60	196.00	1400.00	B32926E3156K	
20	±20%	28.0	42.5	42.0	37.5	495-3839-ND	34.58	254.80	1820.00	B32926E3206K	
20	±10%	30.0	45.0	42.0	37.5	495-3840-ND	38.57	284.20	2030.00	B32926C206M	
25	±10%	30.0	45.0	57.5	52.5	495-3841-ND	49.88	367.50	2625.00	B32928E3256K	
30	±10%	30.0	45.0	57.5	52.5	495-3842-ND	59.85	441.00	3150.00	B32928E3306K	
40	±10%	35.0	50.0	57.5	52.5	495-3843-ND	79.80	588.00	4200.00	B32928E3406K	
45	±20%	35.0	50.0	57.5	52.5	495-3844-ND	85.12	627.20	4480.00	B32928E3456M	

WV (AC)	Cap. (µF)	Tolerance	Dimensions (mm)				Digi-Key Part No.	Pricing			Epcos Part No.
			w	h	L	e		1	10	100	
X1 Series											
330	.010	±20%	4.0	9.0	13.0	10.0	495-3236-ND	.41	3.06	22.95	B32911A3103M
	.022	±20%	5.0	11.0	13.0	10.0	495-3237-ND	.41	3.09	23.18	B32911B3223M
	.033	±20%	6.0	12.0	13.0	10.0	495-3238-ND	.42	3.18	23.85	B32911A3333M
	.022	±20%	5.0	10.5	18.0	15.0	495-3239-ND	.46	3.42	25.65	B32912A3223M
	.033	±20%	5.0	10.5	18.0	15.0	495-3240-ND	.46	3.42	25.65	B32912A3333M
	.047	±20%	5.0	10.5	18.0	15.0	495-3241-ND	.61	4.56	34.18	B32912A3473M
	.068	±20%	6.0	11.0	18.0	15.0	495-3242-ND	.48	3.57	26.78	B32912A3683M
	.10	±20%	7.0	12.5	18.0	15.0	495-3243-ND	.58	4.33	32.49	B32912A3104M
	.15	±20%	7.0	12.5	18.0	15.0	495-3244-ND	.61	4.56	34.20	B32912B3154M
	.15	±20%	8.5	14.5	18.0	15.0	495-3245-ND	.61	4.56	34.20	B32912A3154M
	.22	±20%	8.5	14.5	18.0	15.0	495-3246-ND	.68	5.13	38.48	B32912B3224M
	.22	±20%	9.0	17.5	18.0	15.0	495-3247-ND	.68	5.13	38.48	B32912A3224M
.33	±20%	9.0	17.5	18.0	15.0	495-3248-ND	1.04	7.80	58.50	B32912B3334M	
.15	±20%	6.0	15.0	26.5	22.5	495-3249-ND	.94	7.02	52.65	B32913A3154M	
.22	±20%	7.0	16.0	26.5	22.5	495-3250-ND	1.04	7.80	58.50	B32913A3224M	
.33	±20%	8.5	16.5	26.5	22.5	495-3251-ND	1.23	9.21	69.08	B32913A3334M	
.47	±20%	10.5	16.5	26.5	22.5	495-3252-ND	1.47	11.04	82.80	B32913A3474M	
.47	±20%	11.0	21.0	31.5	27.5	495-3253-ND	1.59	11.94	89.55	B32914A3474M	
.68	±20%	11.0	21.0	31.5	27.5	495-3254-ND	2.16	16.21	121.59	B32914B3684M	
1.0	±20%	13.5	23.0	31.5	27.5	495-3255-ND	1.82	13.68	102.60	B32914A3105M	
1.5	±20%	18.0	27.5	31.5	27.5	495-3256-ND	2.31	17.31	129.83	B32914A3155M	
2.2	±20%	19.0	30.0	31.5	27.5	495-3257-ND	3.16	23.70	177.75	B32914A3225M	
3.3	±20%	18.0	32.5	41.5	37.5	495-3258-ND	6.64	49.80	373.50	B32916A3335M	
4.7	±20%	20.0	39.5	41.5	37.5	495-3259-ND	10.24	76.80	576.00	B32916A3475M	
6.8	±20%	28.0	42.5	41.5	37.5	495-3260-ND	12.68	95.10	713.25	B32916A3685M	
.010	±20%	5.0	10.5	18.0	15.0	495-1656-ND	1.45	10.71	76.50	B81141C1103M	
.022	±20%	7.0	12.5	18.0	15.0	495-1657-ND	1.59	11.73	83.75	B81141C1223M	
.033	±20%	8.5	14.5	18.0	15.0	495-1658-ND	1.73	12.78	91.25	B81141C1333M	
.047	±20%	9.0	17.5	18.0	15.0	495-1659-ND	1.94	14.32	102.25	B81141C1473M	
.068	±20%	8.5	16.5	26.5	22.5	495-1660-ND	2.22	16.38	117.00	B81141C1683M	
1.0	±20%	10.5	16.5	26.5	22.5	495-1661-ND	2.73	20.13	143.75	B81141C1104M	
.15	±20%	11.0	20.5	26.5	22.5	495-1662-ND	2.99	22.05	157.50	B81141C1154M	
.22	±20%	12.5	21.5	31.5	27.5	495-1663-ND	4.29	31.64	226.00	B81141C1224M	
.33	±20%	14.0	24.5	31.5	27.5	495-1664-ND	5.48	40.36	288.25	B81141C1334M	
.47	±20%	18.0	27.5	31.5	27.5	495-1665-ND	5.62	42.53	321.00	B81141C1474M	

F CombiSuppressor — PET Film Capacitor with Integrated Varistor



Features: With the CombiSuppressor series, Epcos has developed an innovative solution for EMI suppression in DC motors in motor vehicles. The CombiSuppressor comprises a film capacitor and a multilayer ceramic varistor connected in parallel in a plastic case. This packaging technology offers mechanical protection for the components and facilitates automatic picking and placement.

Construction: • Dielectric: Metallized polyethylene terephthalate • Stacked-film capacitor technology • Plastic case (UL 94V-0) • Epoxy resin sealing • SIOV metal oxide varistor

Specifications: • Operating Temperature Range: -55°C - 125°C, Meets ISO 7631 • Climatic category (IEC 60068-1): 55/125/56

Cap. (µF)	Cap. Rated Voltage	Clamp Voltage	iMax 8/20µs (A)	Dimensions (mm)				Digi-Key Part No.	Pricing			Epcos Part No.
				b	h	L	e		1	10	100	
0.47	22	44	200	4.5	9.5	7.8	5.0	495-3078-ND	1.03	7.68	56.40	B32529V2474J
1.0	22	44	200	5.0	10.0	7.8	5.0	495-3078-ND	1.10	8.16	59.93	B32529V2105J
0.47	26	54	200	4.5	9.5	7.8	5.0	495-3080-ND	1.12	8.32	61.10	B32529V3474J
0.68	26	54	200	4.5	9.5	7.8	5.0	495-3081-ND	1.12	8.32	61.10	B32529V3684J
1.0	26	54	200	5.0	10.0	7.8	5.0	495-3082-ND	1.16	8.64	63.45	B32529V3105J
0.47	31	65	200	4.5	9.5	7.8	5.0	495-3084-ND	1.20	8.96	65.80	B32529V9474J
0.68	31	65	200	4.5	9.5	7.8	5.0	495-3085-ND	1.20	8.96	65.80	B32529V9684J
1.0	31	65	200	5.0	10.0	7.8	5.0	495-3086-ND	1.20	8.96	65.80	B32529V9105J

Cap. (µF)	Cap. Rated Voltage	Clamp Voltage	iMax 8/20µs (A)	Dimensions (mm)				Digi-Key Part No.	Pricing			Epcos Part No.
				b	h	L	e		1	10	100	
0.68	38	77	200	4.5	9.5	7.8	5.0	495-3089-ND	1.25	9.28	68.15	B32529V5684J
1.0	38	77	200	5.0	10.0	7.8	5.0	495-3090-ND	1.29	9.60	70.50	B32529V105J
0.68	45	90	100	4.5	9.5	7.8	5.0	495-3093-ND	1.33	9.92	72.85	B32529V7684J
1.0	45	90	100	5.0	10.0	7.8	5.0	495-3094-ND	1.35	10.08	74.03	B32529V7105J
0.68	31	65	200	5.0	11.0	13.0	10.0	495-3105-ND	1.23	9.12	66.98	B32521V9684J
1.0	31	65	200	5.0	11.0	13.0	10.0	49				