

KEMET 125°C Low ESR Aluminum Organic Capacitors



KEMET's A700 Series, targets power management applications. With aluminum as the anode material, aluminum oxide as the dielectric, and a conductive polymer to replace the wet electrolytic historically used in aluminum capacitors, KEMET has advanced beyond existing aluminum organic capacitors. The KEMET A700 Series AO-CAP is also an ideal alternative to high-capacitance ceramics. Its outstanding high frequency performance helps reduce component counts, cost-effectively saving board space.

Features:

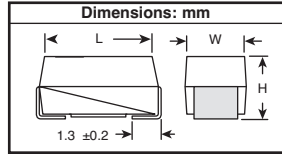
- Extremely low ESR
- High capacitance retention for superior performance at high operating frequencies
- Non-ignition failure mode
- No "dry-out" or "wear-out" related failure mechanism
- No voltage derating up to +125°C
- True surface-mount capability
- Overall lower placement costs
- PB free
- Self healing mechanism
- MSL3 packaging

Other ESR Ratings Available
Please contact a Mouser Customer Service Representative



RoHS Compliant

Case Size		L	W	H Max
KEMET	EIA			
V	7343-20	7.3±0.3	4.3±0.3	1.9±0.1
D	7343-31	7.3±0.3	4.3±0.3	2.8±0.3
X	7343-43	7.3±0.3	4.3±0.3	4.0±0.3
W	7343-43	7.3±0.3	4.3±0.3	1.5



Cross Reference Chart

KEMET AO	Panasonic SP
A700	EEF

A700 Series

Aluminum Polymer Caps

KEMET

MOUSER STOCK NO.	KEMET Part Number	Volt (DC)	Value (µF)	Case Code	ESR mΩ 100kHz 25°C Max	DCL @VR µA +25°C Max	Ripple Current A rms 100kHz Max	Price Each				
								1	10	100	500	1000
80-A700V107M2E18	A700V107M002ATE018	2	100	V	18	12	3.9	1.90	1.81	1.52	1.14	.95
80-A700V107M002	A700V107M002ATE028	2	100	V	28	12	3.1	1.98	1.85	1.53	.991	.826
80-A700W107M2E9	A700W107M002ATE009	2	100	W	9	12	5.6	3.50	3.33	2.80	2.10	1.75
80-A700V127M2E18	A700V127M002ATE018	2	120	V	18	14.4	3.9	2.98	2.83	2.38	1.79	1.49
80-A700V127M2E25	A700V127M002ATE025	2	120	V	25	14.4	3.3	2.73	2.59	2.18	1.64	1.36
80-A700V157M2E15	A700V157M002ATE015	2	150	V	15	18	4.2	2.23	1.81	1.52	1.34	1.12
80-A700V157M002	A700V157M002ATE028	2	150	V	28	18	3.1	1.75	1.63	1.53	.991	.826
80-A700D187M2E15	A700D187M002ATE015	2	180	D	15	21.6	4.1	2.90	2.76	2.32	1.74	1.45
80-A700D187M2E18	A700D187M002ATE018	2	180	D	18	21.6	3.7	2.65	2.52	2.12	1.59	1.33
80-A700D227M2E9	A700D227M002ATE009	2	220	D	9	26.4	5.3	3.40	3.23	2.72	1.79	1.52
80-A700D227M2E15	A700D227M002ATE015	2	220	D	15	26.4	4.1	2.90	2.76	2.32	1.59	1.35
80-A700D227M002	A700D227M002ATE018	2	220	D	18	26.4	3.7	2.65	2.52	2.28	1.49	1.26
80-A700X337M2E12	A700D337M002ATE012	2	330	D	12	39.6	4.6	4.23	3.16	2.74	1.69	1.43
80-A700X337M2E10	A700X337M002ATE010	2	330	X	10	39.6	4.7	3.90	3.71	3.12	2.34	1.95
80-A700X397M2E10	A700X397M002ATE010	2	390	X	10	46.8	4.7	3.65	3.47	3.09	2.10	1.78
80-A700X477M2E10	A700X477M002ATE010	2	470	X	10	56.4	4.7	3.90	3.71	3.12	2.34	1.95
80-A700V826M2R5E18	A700V826M2R5ATE018	2.5	82	V	18	12.3	3.9	2.25	2.14	1.80	1.35	1.13
80-A700D157M2R5E15	A700D157M2R5ATE015	2.5	150	D	15	22.5	4.1	2.90	2.76	2.32	1.74	1.45
80-A700D187M2R5E15	A700D187M2R5ATE015	2.5	180	D	15	27	4.1	3.98	3.78	3.18	2.39	1.99
80-A700X227M2R5E10	A700X227M2R5ATE010	2.5	220	X	10	33	4.7	3.90	3.71	3.12	2.34	1.95
80-A700X337M2R5E10	A700X337M2R5ATE010	2.5	330	X	10	49.5	4.7	5.25	4.99	4.20	3.15	2.63
80-A700V686M4E20	A700V686M004ATE020	4	68	V	20	16.3	3.7	4.25	4.03	3.37	2.49	2.05
80-A700V686M4E28	A700V686M004ATE028	4	68	V	28	16.3	3.1	2.48	1.85	1.60	1.23	.99
80-A700V826M4E18	A700V826M004ATE018	4	82	V	18	19.7	3.9	2.25	2.14	1.80	1.35	1.13
80-A700D127M4E15	A700D127M004ATE015	4	120	D	15	28.8	4.1	2.90	2.76	2.45	1.74	1.45
80-A700D127M004	A700D127M004ATE018	4	120	D	18	28.8	3.7	2.65	2.52	2.28	1.49	1.26
80-A700D157M4E15	A700D157M004ATE015	4	150	D	15	36	4.1	2.90	2.76	2.32	1.74	1.45
80-A700D157M004	A700D157M004ATE018	4	150	D	18	36	3.7	2.65	2.52	2.12	1.49	1.26
80-A700D187M4E15	A700D187M004ATE015	4	180	D	15	43.2	4.1	3.98	3.78	3.18	2.39	1.99
80-A700D187M4E18	A700D187M004ATE018	4	180	D	18	43.2	3.7	3.73	3.54	2.98	2.24	1.86
80-A700X187M4E18	A700X187M004ATE018	4	180	X	18	44.9	3.5	5.53	3.96	3.64	2.58	2.15
80-A700X227M4E10	A700X227M004ATE010	4	220	X	10	52.8	4.7	3.90	3.71	3.12	2.34	1.95
80-A700X277M4E10	A700X277M004ATE010	4	270	X	10	64.8	4.7	3.90	3.71	3.12	2.34	1.95
80-A700X337M4E10	A700X337M004ATE010	4	330	X	10	79.2	4.7	5.25	4.99	4.20	3.15	2.63
80-A700V106M6E55	A700V106M006ATE055	6	10	V	55	3.8	2.2	2.48	1.85	1.60	1.23	.99
80-A700V107M6E15	A700V107M006ATE015	6	100	V	15	37.8	4.2	3.25	2.43	2.11	1.62	1.30
80-A700D157M6E10	A700D157M006ATE010	6	150	D	10	56.7	5	4.23	3.16	2.74	1.69	1.43
80-A700V226M6E28	A700V226M006ATE028	6.3	22	V	28	5.5	3.1	2.73	2.59	2.18	1.64	1.36
80-A700V226M6E45	A700V226M006ATE045	6.3	22	V	45	5.5	2.4	2.48	2.35	1.98	1.49	1.24
80-A700V336M6E18	A700V336M006ATE018	6.3	33	V	18	8.3	3.9	1.90	1.81	1.52	1.14	.95
80-A700V336M6E25	A700V336M006ATE025	6.3	33	V	25	8.3	3.3	1.65	1.57	1.32	.99	.83
80-A700V476M6E18	A700V476M006ATE018	6.3	47	V	18	11.8	3.9	1.90	1.81	1.52	1.14	.95
80-A700V476M006	A700V476M006ATE025	6.3	47	V	25	11.8	3.3	2.04	1.47	1.40	.991	.826
80-A700V476M6E28	A700V476M006ATE028	6.3	47	V	28	11.8	3.1	1.40	1.33	1.12	.84	.70
80-A700V566M6E18	A700V566M006ATE018	6.3	56	V	18	14.1	3.9	1.90	1.81	1.52	1.14	.95
80-A700V566M6E25	A700V566M006ATE025	6.3	56	V	25	14.1	3.3	1.65	1.57	1.32	.99	.83
80-A700V566M6E28	A700V566M006ATE028	6.3	56	V	28	14.1	3.1	1.40	1.33	1.12	.84	.70
80-A700V686M6E18	A700V686M006ATE018	6.3	68	V	18	17.1	3.9	1.90	1.81	1.52	1.14	.95
80-A700V686M6E25	A700V686M006ATE025	6.3	68	V	25	17.1	3.3	1.65	1.57	1.32	.99	.83
80-A700V826M6E18	A700V826M006ATE018	6.3	82	V	18	20.7	3.9	2.98	2.83	2.38	1.79	1.49
80-A700V826M6E25	A700V826M006ATE025	6.3	82	V	25	20.7	3.3	2.73	2.59	2.18	1.64	1.36
80-A700D107M6E15	A700D107M006ATE015	6.3	100	D	15	25.2	4.1	2.90	2.76	2.32	1.59	1.35
80-A700D107M006	A700D107M006ATE018	6.3	100	D	18	25.2	3.7	2.65	2.52	2.12	1.49	1.26
80-A700D127M6E15	A700D127M006ATE015	6.3	120	D	15	30.2	4.1	3.98	3.78	3.18	2.39	1.99
80-A700D127M6E18	A700D127M006ATE018	6.3	120	D	18	30.2	3.7	3.73	3.54	2.98	2.24	1.86
80-A700X157M6E10	A700X157M006ATE010	6.3	150	X	10	37.8	4.7	3.90	3.71	3.12	2.10	1.78
80-A700X187M6E10	A700X187M006ATE010	6.3	180	X	10	45.4	4.7	3.90	3.71	3.12	2.34	1.95
80-A700V226M8E28	A700V226M008ATE028	8	22	V	28	7.0	3.1	2.73	2.59	2.18	1.64	1.36
80-A700V226M8E45	A700V226M008ATE045	8	22	V	45	7.0	2.4	2.48	2.35	1.98	1.49	1.24
80-A700V336M8E18	A700V336M008ATE018	8	33	V	18	10.6	3.9	1.90	1.81	1.52	1.14	.95
80-A700V336M8E25	A700V336M008ATE025	8	33	V	25	10.6	3.3	1.65	1.57	1.32	.99	.83
80-A700D566M8E15	A700D566M008ATE015	8	56	D	15	17.9	4.1	3.98	3.78	3.18	2.39	1.99
80-A700D566M8E18	A700D566M008ATE018	8	56	D	18	17.9	3.7	3.73	3.54	2.98	2.24	1.86
80-A700D686M8E15	A700D686M008ATE015	8	68	D	15	21.8	4.1	3.98	3.78	3.18	2.39	1.99
80-A700D686M8E18	A700D686M008ATE018	8	68	D	18	21.8	3.7	3.73	3.54	2.98	2.24	1.86
80-A700X107M8E10	A700X107M008ATE010	8	100	X	10	32	4.7	5.25	4.99	4.20	3.15	2.63
80-A700V336M10E18	A700V336M010ATE018	10	33	V	18	13.2	3.9	1.90	1.81	1.52	1.14	.95
80-A700D566M10E15	A700D566M010ATE015	10	56	D	15	22.4	4.1	3.98	3.78	3.18	2.39	1.99
80-A700D566M010	A700D566M010ATE018	10	56	D	18	22.4	3.7	3.73	3.54	2.98	2.24	1.86
80-A700D686M10E15	A700D686M010ATE015	10	68	D	15	27.2	4.1	3.98	3.78	3.18	2.39	1.99
80-A700D686M10E18	A700D686M010ATE018	10	68	D	18	27.2	3.7	3.73	3.54	2.98	2.24	1.86
80-A700X107M10E10	A700X107M010ATE010	10	100	X	10	40	4.7	3.95	3.75	3.16	2.37	1.98
80-A700X127M10E10	A700X127M010ATE010	10	120	X	10	48	4.7	5.25	4.60	4.20	3.30	2.30
80-A700X157M10E10	A700X157M010ATE010	10	150	X	10	60	4.7	4.10	3.90	3.28	2.46	2.05
80-A700V106M12RE40	A700V106M12RATE040	12.5	10	V	40	70.5	2.6	3.00	2.25	1.95	1.50	1.20
80-A700V106M12E60	A700V106M12RATE060	12.5	10	V	60	5	2.1	2.75	2.61	2.20	1.65	1.38
80-A700V156M12E40	A700V156M12RATE040	12.5	15	V	40	7.5	2.6	2.85	2.71	2.28	1.71	1.43
80-A700V226M12E30	A700V226M12RATE030	12.5	22	V	30	11	3	3.14	2.95	2.80	2.55	2.36
80-A700D476M12RE25	A700D476M12RATE025	12.5	47	D	25	55.4	3.2	3.90	3.72	2.53	1.56	1.32
80-A700X107M12RE15	A700X107M12RATE015	12.5	100	X	15	55.4	3.9	5.75	4.31	3.73	2.30	1.95
80-A700V685M16E70	A700V685M016ATE070	16	6.8	V	70	4.3	1.9	3.19	2.85	2.59	2.39	2.00
80-A700V825M16E45	A700V825M016ATE045	16										