

# 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:**

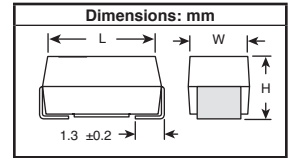
- Extremely low ESR
- High capacitance retention for superior performance at high operating frequencies
- Non-ignition failure mode
- No "dry-out" or "wear-out" related failure mechanism
- No voltage derating up to +125°C
- True surface-mount capability
- Overall lower placement costs
- PB free
- Self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

Other ESR Ratings Available

Please contact a Mouser Customer Service Representative



RoHS Compliant



**Cross Reference Chart**

KEMET AO	Panasonic SP
A700	EEF

Case Size		L	W	H
KEMET	EIA			Max
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

KEMET Aluminum Polymer Caps

## A700 SERIES

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	KEMET Part No.	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-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	2.57	2.18	1.64	1.36
80-A700V157M2E15	A700V157M002ATE015	2	150	V	15	18	4.2	2.23	1.81	1.52	1.34	.83
80-A700V157M002	A700V157M002ATE028	2	150	V	28	18	3.1	2.48	2.03	1.63	1.33	.83
80-A700D187M2E15	A700D187M002ATE015	2	180	D	15	21.6	4.1	2.90	2.76	2.45	1.74	1.45
80-A700D227M2E9	A700D227M002ATE009	2	220	D	9	26.4	5.3	3.40	3.04	2.68	1.43	1.25
80-A700D227M2E15	A700D227M002ATE015	2	220	D	15	26.4	4.1	2.90	2.70	2.21	1.27	1.11
80-A700D227M002	A700D227M002ATE018	2	220	D	18	26.4	3.7	2.65	2.52	2.08	1.19	1.04
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	3.60	3.20	2.78	1.45	1.35
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	2.45	1.74	1.45
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	2.75	2.22
80-A700V686M4E20	A700V686M004ATE020	4	68	V	20	16.3	3.7	2.18	1.85	1.63	1.36	.76
80-A700V686M4E28	A700V686M004ATE028	4	68	V	28	16.3	3.1	1.98	1.85	1.60	1.23	.74
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	2.08	1.19	1.04
80-A700D157M4E15	A700D157M004ATE015	4	150	D	15	36	4.1	2.90	2.76	2.45	1.74	1.45
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	3.60	3.20	2.78	1.45	1.35
80-A700X227M4E10	A700X227M004ATE010	4	220	X	10	52.8	4.7	3.90	3.30	2.28	1.88	1.75
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	2.75	2.22
80-A700V106M6E55	A700V106M006ATE055	6	100	V	55	3.8	2.2	1.98	1.85	1.60	1.23	.74
80-A700V107M6E15	A700V107M006ATE015	6	100	V	15	37.8	4.2	2.60	2.21	1.95	1.62	.91
80-A700D157M6E10	A700D157M006ATE010	6	150	D	10	56.7	5	3.38	2.87	2.53	1.35	1.18
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-A700V336M6E25	A700V336M006ATE025	6.3	33	V	25	8.3	3.3	2.23	1.85	1.63	1.36	.93
80-A700V476M6E18	A700V476M006ATE018	6.3	47	V	18	11.8	3.9	2.23	1.81	1.52	1.34	1.01
80-A700V476M006	A700V476M006ATE025	6.3	47	V	25	11.8	3.3	2.23	1.85	1.63	1.36	.76
80-A700V476M6E28	A700V476M006ATE028	6.3	47	V	28	11.8	3.1	2.48	2.03	1.63	1.33	.74
80-A700V566M6E25	A700V566M006ATE025	6.3	56	V	25	14.1	3.3	2.23	1.85	1.63	1.36	.93
80-A700V566M6E28	A700V566M006ATE028	6.3	56	V	28	14.1	3.1	2.48	2.03	1.63	1.33	.83
80-A700V686M6E18	A700V686M006ATE018	6.3	68	V	18	17.1	3.9	2.23	1.81	1.52	1.34	1.01
80-A700V686M6E25	A700V686M006ATE025	6.3	68	V	25	17.1	3.3	2.23	1.85	1.63	1.36	.93
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	2.70	2.21	1.27	1.11
80-A700D107M006	A700D107M006ATE018	6.3	100	D	18	25.2	3.7	2.65	2.52	2.08	1.19	1.04
80-A700D127M6E15	A700D127M006ATE015	6.3	120	D	15	30.2	4.1	3.78	3.36	3.04	1.52	1.41
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	3.78	3.36	3.04	1.52	1.41
80-A700X187M6E10	A700X187M006ATE010	6.3	180	X	10	45.4	4.7	3.78	3.36	3.04	1.52	1.41
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	2.23	1.81	1.52	1.34	1.01
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-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	3.70	3.40	2.28	1.88	1.75
80-A700V336M10E18	A700V336M010ATE018	10	33	V	18	13.2	3.9	2.23	1.81	1.52	1.34	1.01
80-A700D566M10E15	A700D566M010ATE015	10	56	D	15	22.4	4.1	3.98	3.78	3.18	2.39	1.99
80-A700D686M10E15	A700D686M010ATE015	10	68	D	15	27.2	4.1	3.90	3.30	2.28	1.88	1.75
80-A700D686M10E18	A700D686M010ATE018	10	68	D	18	27.2	3.7	3.60	3.20	2.90	1.45	1.35
80-A700X107M10E10	A700X107M010ATE010	10	100	X	10	40	4.7	3.95	3.40	2.28	1.88	1.75
80-A700X127M10E10	A700X127M010ATE010	10	120	X	10	48	4.7	5.25	4.60	4.20	2.30	2.30
80-A700X157M10E10	A700X157M010ATE010	10	150	X	10	60	4.7	4.10	3.90	3.20	2.46	2.05
80-A700V106M12RE40	A700V106M12RATE040	12.5	10	V	40	70.5	2.6	2.40	2.04	1.80	1.50	.84
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	27	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	3.12	2.65	2.34	1.24	1.09
80-A700X107M12RE15	A700X107M12RATE015	12.5	100	X	15	55.4	3.9	4.14	3.68	3.33	1.66	1.55
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	8.2	V	45	5.2	2.4	2.85	2.40	2.05	1.50	1.35
80-A700V106M16E45	A700V106ATE045	16	10	V	45	6.4	2.4	2.40	2.04	1.80	1.50	.84
80-A700V156M16E40	A700V156M016ATE040	16	15	V	40	14.4	2.6	2.60	2.21	1.95	1.62	.91
80-A700D226M16E30	A700D226M016ATE030	16	22	D	30	21.1	2.9	2.98	2.53	2.23	1.19	1.04