

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ 25°C Max.	DF % @ 25°C 120Hz Max.	ESR Ω @ 25°C 100kHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	100		Qty.	Pricing	
2.5	680 ±20	170	8	0.006	X	399-4987-1-ND		11.75	10.23	8.93	399-4987-2-ND	500	2138.50	T530X687M2R5ATE006
	680 ±20	170	8	0.006	Y	399-3471-1-ND		11.00	9.57	8.36	399-3471-2-ND	500	2002.00	T530Y687M2R5ATE006
	1000 ±20	250	8	0.006	X	399-4132-1-ND		12.25	10.66	9.31	399-4132-2-ND	500	2229.50	T530X108M2R5ATE006
	1000 ±20	250	8	0.005	Y	399-4749-1-ND		11.50	10.01	8.74	399-4749-2-ND	500	2093.00	T530Y108M2R5ATE005
	1500 ±20	375	8	0.005	X	399-5274-1-ND		13.50	11.75	10.26	399-5274-2-ND	500	2457.00	T530X158M2R5ATE005
3	680 ±20	204	8	0.01	D	399-4129-1-ND		10.25	8.92	7.79	399-4129-2-ND	500	1865.50	T530D687M003ATE010
	1000 ±20	300	8	0.01	X	399-4131-1-ND		11.75	10.23	8.93	399-4131-2-ND	500	2138.50	T530X108M003ATE010
	1500 ±20	450	8	0.008	X	399-4133-1-ND		13.00	11.31	9.88	399-4133-2-ND	500	2366.00	T530X158M003ATE008
4	330 ±20	132	8	0.006	D	399-4124-1-ND		10.50	9.14	7.98	399-4124-2-ND	500	1911.00	T530D337M004ATE006
	470 ±20	188	8	0.006	D	399-4986-1-ND		10.75	9.36	8.17	399-4986-2-ND	500	1956.50	T530D477M004ATE006
	470 ±20	188	8	0.01	D	399-4126-1-ND		10.25	8.92	7.79	399-4126-2-ND	500	1865.50	T530D477M004ATE010
	680 ±20	272	8	0.004	X	399-4817-1-ND		13.25	11.53	10.07	399-4817-2-ND	500	2411.50	T530X687M004ATE004
	680 ±20	272	8	0.01	X	399-4139-1-ND		11.75	10.23	8.93	399-4139-2-ND	500	2138.50	T530X687M004ATE010
6.3	680 ±20	272	8	0.006	X	399-4138-1-ND		12.25	10.66	9.31	399-4138-2-ND	500	2229.50	T530X687M004ATE006
	680 ±20	272	8	0.005	Y	399-4750-1-ND		11.50	10.01	8.74	399-4750-2-ND	500	2093.00	T530Y687M004ATE005
	220 ±20	139	8	0.006	D	399-4122-1-ND		10.50	9.14	7.98	399-4122-2-ND	500	1911.00	T530D227M006ATE006
	330 ±20	208	8	0.01	D	399-4125-1-ND		10.00	8.70	7.60	399-4125-2-ND	500	1820.00	T530D337M006ATE010
	330 ±20	208	8	0.006	Y	399-3472-1-ND		11.00	9.57	8.36	399-3472-2-ND	500	2002.00	T530Y337M006ATE006
10	330 ±20	208	8	0.006	D	399-4751-1-ND		10.50	9.14	7.98	399-4751-2-ND	500	1911.00	T530D337M006ATE006
	470 ±20	296	8	0.005	Y	399-4752-1-ND		11.50	10.01	8.74	399-4752-2-ND	500	2093.00	T530Y477M006ATE005
	470 ±20	296	8	0.01	X	399-4137-1-ND		11.75	10.23	8.93	399-4137-2-ND	500	2138.50	T530X477M006ATE010
	470 ±20	297	8	0.006	X	399-4136-1-ND		12.25	10.66	9.31	399-4136-2-ND	500	2229.50	T530X477M006ATE006
	680 ±20	428	8	0.018	X	399-5408-1-ND	NEW!	11.75	10.23	8.93	399-5408-2-ND	NEW!	500	2138.50
16	150 ±20	150	8	0.006	D	399-4121-1-ND		10.50	9.14	7.98	399-4121-2-ND	500	1911.00	T530D157M010ATE006
	150 ±20	150	8	0.01	D	399-4791-1-ND		9.00	8.70	7.60	399-4791-2-ND	500	1820.00	T530D157M010ATE010
	220 ±20	220	8	0.01	D	399-4123-1-ND		10.50	8.70	7.60	399-4123-2-ND	500	1820.00	T530D227M010ATE010
	220 ±20	220	8	0.006	D	399-4747-1-ND		10.50	9.14	7.98	399-4747-2-ND	500	1911.00	T530D227M010ATE006
	220 ±20	220	8	0.006	Y	399-4748-1-ND		11.00	9.57	8.36	399-4748-2-ND	500	2002.00	T530Y227M010ATE006
16	330 ±20	330	8	0.01	X	399-4135-1-ND		11.75	10.23	8.93	399-4135-2-ND	500	2138.50	T530X337M010ATE010
	330 ±20	330	8	0.006	X	399-4134-1-ND		12.25	10.66	9.31	399-4134-2-ND	500	2229.50	T530X337M010ATE006
	150 ±20	240	8	0.015	X	399-4663-1-ND		12.60	12.18	10.64	399-4663-2-ND	500	2548.00	T530X157M016ATE015
16	150 ±20	240	8	0.025	X	399-4664-1-ND		12.15	11.75	10.26	399-4664-2-ND	500	2457.00	T530X157M016ATE025
	150 ±20	240	8	0.04	X	399-4665-1-ND		11.70	11.31	9.88	399-4665-2-ND	500	2366.00	T530X157M016ATE040

Kits – RoHS Compliant

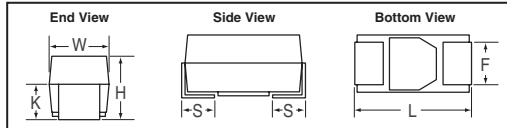
§ 399-5260-ND (Kemet No. TAN ENG KIT 04) 10 each of values denoted (100 total pieces)	\$50.00
§ 399-5278-ND (Kemet No. TAN ENG KIT 09) 10 each of values denoted (100 total pieces)	\$50.00
399-5270-ND (Kemet No. TAN ENG KIT 08) See Digi-Key website for values included (160 total pieces)	\$50.00



A700 Series AO-CAP Aluminum Organic Capacitors

KEMET's AO-CAP, designated the A700 Series, has been targeted for power management applications. The structure of the AO-CAP uses aluminum as the anode material, aluminum oxide as the dielectric, and a conductive organic polymer for its counter-electrode material. The AO-CAP offers many advantages:

- Extremely low ESR • High capacitance retention for superior performance at high operating frequencies • No voltage derating up to 125°C • Robust to the surface-mount process • No dry-out-related failure mechanism



The A700 Series has a molded case and wraparound terminations. This provides strong protection against cracks (flex) making it an ideal alternative to high-capacitance ceramics, and also offers true surface-mountable solutions to the existing aluminum organic capacitors found in the industry. The high-frequency performance of the AO-CAP can reduce component counts, which allows the designer to save board space and offers a more cost-effective solution.

Size Code		L	W	H	K Min.	F ±0.1	S ±0.2
Kemet	EIA						
V	7343-20	7.3 ± 0.3	4.3 ± 0.3	1.9 ± 0.1	1.1	2.4	1.3
D	7343-31	7.3 ± 0.3	4.3 ± 0.3	2.8 ± 0.3	1.3	2.4	1.3
X	7343-43	7.3 ± 0.3	4.3 ± 0.3	4.0 ± 0.3	2.1	2.4	1.3

The AO-CAP has excellent surge current performance and long-term reliability. There is no recommended derating of application voltage to reduce failure rate. **Operating Temperature:** -55°C ~ 125°C. The approximate capacitance shift over the temperature range for -55°C is -15%, and for 125°C is +15%. **Capacitance Tolerance:** ±20%

WV (DC)	Cap (µF)	Size Code	DC Leakage µA @ 25°C Maximum	DF % @ 25°C 120Hz Max.	ESR Ω @ 25°C 100kHz Max.	Ripple Current Arms 100kHz, at Max. ESR -55°C ~ 125°C	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	100		Qty.	Pricing	
2	100	V	12	6	0.028	2.1	399-3030-1-ND	1.98	1.86	1.61	399-3030-2-ND	1,000	990.00	A700V107M002ATE028
	150	V	18	6	0.028	2.1	399-3031-1-ND	1.98	1.86	1.61	399-3031-2-ND	1,000	990.00	A700V157M002ATE028
	180	D	21.6	6	0.018	2.9	399-3032-1-ND	2.98	2.80	2.43	399-3032-2-ND	500	745.00	A700D187M002ATE018
	220	D	26.4	6	0.018	2.9	399-3033-1-ND	2.98	2.80	2.43	399-3033-2-ND	500	745.00	A700D227M002ATE018
	220	D	26.4	6	0.015	3.2	399-3034-1-ND	3.18	2.99	2.59	399-3034-2-ND	500	795.00	A700D227M002ATE015
	220	D	26.4	6	0.012	3.5	399-3035-1-ND	3.38	3.17	2.75	399-3035-2-ND	500	845.00	A700D227M002ATE012
	270	X	26.4	6	0.015	3.2	399-3036-1-ND	4.00	3.75	3.25	399-3036-2-ND	500	1000.00	A700X277M002ATE015
2.5	330	X	39.6	6	0.015	3.3	399-3037-1-ND	4.00	3.75	3.25	399-3037-2-ND	500	1000.00	A700X337M002ATE015
	390	X	46.8	6	0.01	4.1	399-3038-1-ND	4.20	3.94	3.42	399-3038-2-ND	500	1050.00	A700X397M002ATE010
	470	X	56.4	6	0.015	4.5	399-3040-1-ND	4.00	3.75	3.25	399-3040-2-ND	500	1000.00	A700X477M002ATE015
	82	V	12.3	6	0.028	2.1	399-3041-1-ND	1.98	1.86	1.61	399-3041-2-ND	1,000	990.00	A700V826M2R5ATE028
	150	D	22.5	6	0.018	2.9	399-3042-1-ND	2.98	2.80	2.43	399-3042-2-ND	500	745.00	A700D157M2R5ATE018
4	220	X	33	6	0.015	3.3	399-3043-1-ND	4.00	3.75	3.25	399-3043-2-ND	500	1000.00	A700X227M2R5ATE015
	82	V	19.7	6	0.028	2.1	399-3044-1-ND	1.98	1.86	1.61	399-3044-2-ND	1,000	990.00	A700V826M004ATE028
	120	D	28.8	6	0.018	2.9	399-3045-1-ND	2.98	2.80	2.43	399-3045-2-ND	500	745.00	A700D127M004ATE018
	150	D	36	6	0.018	2.9	399-3046-1-ND	2.98	2.80	2.43	399-3046-2-ND	500	745.00	A700D157M004ATE018
	180	X	43.2	6	0.015	3.3	399-3047-1-ND	4.00	3.75	3.25	399-3047-2-ND	500	1000.00	A700X187M004ATE015
6.3	220	X	52.8	6	0.015	3.3	399-3048-1-ND	4.00	3.75	3.25	399-3048-2-ND	500	1000.00	A700X227M004ATE015
	270	X	64.8	6	0.015	3.3	399-3049-1-ND	4.00	3.75	3.25	399-3049-2-ND	500	1000.00	A700X277M004ATE015
	33	V	8.3	6	0.028	2.1	399-3050-1-ND	1.98	1.86	1.61	399-3050-2-ND	1,000	990.00	A700V336M006ATE028
	47	V	11.8	6	0.025	3.3	399-5277-1-ND	2.18	2.05	1.78	399-5277-2-ND	1,000	1090.00	A700V476M006ATE025
	47	V	11.8	6	0.028	2.1	399-3051-1-ND	1.98	1.86	1.61	399-3051-2-ND	1,000	990.00	A700V476M006ATE028
8	56	V	14.1	6	0.028	2.1	399-3052-1-ND	1.98	1.86	1.61	399-3052-2-ND	1,000	990.00	A700V566M006ATE028
	68	V	17.1	6	0.028	2.1	399-3053-1-ND	1.98	1.86	1.61	399-3053-2-ND	1,000	990.00	A700V686M006ATE028
	100	D	25.2	6	0.015	4.1	399-5275-1-ND	3.18	2.99	2.59	399-5275-2-ND	500	795.00	A700D107M006ATE015
	100	D	25.2	6	0.018	2.9	399-3054-1-ND	2.98	2.80	2.43	399-3054-2-ND	500	745.00	A700D107M006ATE018
	150	X	37.8	6	0.01	4.7	399-5276-1-ND	4.20	3.94	3.42	399-5276-2-ND	500	1050.00	A700X157M006ATE010
12.5	150	X	37.8	6	0.015	3.3	399-3055-1-ND	4.00</						