

# A700 Series - Aluminum Organic Conductive Polymer Capacitor

## Product Specification

### Features

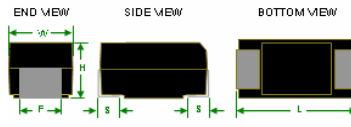
- ESR as low as 7mOhms
- Capacitance values to 470uF
- High Frequency Cap Retention
- No Temperature Derating
- No Voltage Derating
- High Ripple Current Capability
- Stable temperature characteristics
- Pb Free/RoHS Compliant
- Safe failure mode

### Specifications

Item	Performance Characteristics					
Operating Temperature	-55° C to 125° C					
Rated Capacitance Range	6.8uF to 470uF @ 120 Hz/25° C					
Capacitance Tolerance	M Tolerance (20%)					
Rated Voltage Range	2V to 16V					
Dissipation Factor (DF)	≤ 10%					
ESR (100KHz)	Refer to Part Number Electrical Specification Table					
Leakage Current	≤ 4V: ≤ 0.04CV (μA) at Rated Voltage after 5 minutes > 4V: ≤ 0.06CV (μA) at Rated Voltage after 5 minutes					
Endurance	125° C @ Rated Voltage, 1000 Hrs.	ΔC/C	Within -20/+10 of initial value			
		DF	≤ Initial Limit			
		DCL	Within initial limit			
Humidity	60° C, 90% RH, 500Hr, No Load	ΔC/C	Within -5%/+35% of initial value			
		DF	≤ Initial Limit			
		DCL	Within 3.0 x initial limit			
Temperature Stability	Extreme temperature exposure at a succession of continuous steps at +25 C, -55 C, +25 C, +85 C, +125 C, +25 C.	ΔC/C	IL*	+/-20%	+/-20%	+/-30%
		DF	IL	IL	1.2 x IL	1.5 x IL
		DCL	IL	n/a	10 x IL	10 x IL
				+25°C	-55°C	+85°C
Surge Voltage	125°C, 1.32 x rated voltage 1000 cycles	ΔC/C	Within -20/+10 of initial value			
		DF	Within initial limits			
		DCL	Within initial limits			
		ESR	Within initial limits			

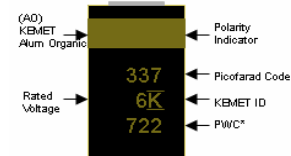
\* IL = Initial Limit

### Component Dimensions



Case Codes		Component Dimensions (mm)				
		L	W	H	F ± 0.1	S ± 0.3
KEMET	EIA					
V	7343-20	7.3±0.3	4.3±0.3	2.0 max	2.4	1.3
W	7343-15	7.3±0.3	4.3±0.3	1.5 max	2.4	1.3
D	7343-31	7.3±0.3	4.3±0.3	2.8±0.3	2.4	1.3
X	7343-43	7.3±0.3	4.3±0.3	4.0±0.3	2.4	1.3

### Component Marking



\* 722 = 22<sup>nd</sup> week of 2007

### Part Number Specification

KEMET Part Number	Case	Cap (μF)	Voltage	DCL VR (μA)	DF 120Hz (%)	ESR 100KHz (mΩ)	Ripple Current (Arms) 100KHz @ -55°C to 125°C	ΔT=+20°
A700W107M002ATE009	W/7343-15	100	2	12.0	6	9	5.6	
A700W107M002ATE016	W/7343-15	100	2	12.0	6	16	4.2	
A700V157M002ATE015	V/7343-20	150	2	18.0	6	15	4.2	
A700V227M002ATE007	V/7343-20	220	2	26.4	6	7	6.2	
A700V227M002ATE015	V/7343-20	220	2	26.4	6	15	4.2	
A700D227M002ATE009	D/7343-31	220	2	26.4	6	9	5.3	
A700D337M002ATE012	D/7343-31	330	2	39.6	6	12	4.6	
A700X477M002ATE007	X/7343-43	470	2	56.4	6	7	5.7	
A700V686M004ATE020	V/7343-20	68	4	16.3	6	20	3.7	
A700V686M004ATE028	V/7343-20	68	4	16.3	6	28	3.1	
A700X187M004ATE018	X/7343-43	187	4	44.9	6	18	3.5	
A700V106M006ATE055	V/7343-20	10	6.3	3.8	6	55	2.2	
A700V107M006ATE015	V/7343-20	100	6.3	37.8	6	15	4.2	
A700D157M006ATE010	D/7343-31	150	6.3	56.7	6	10	5.0	
A700V156M016ATE040	V/7343-20	15	16	14.4	6	40	2.6	
A700D226M016ATE030	D/7343-31	22	16	21.1	6	30	2.9	