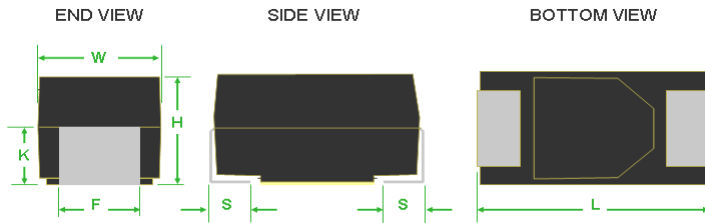


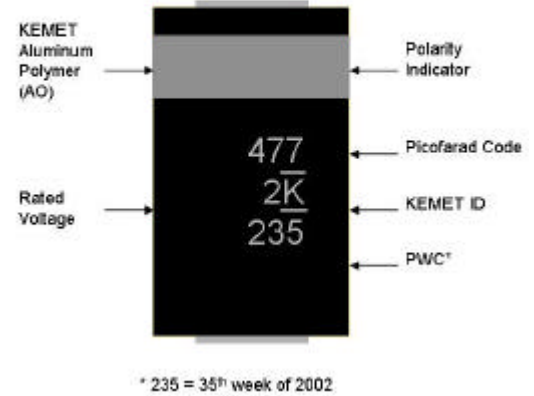
A700 Series - KEMET Aluminum-Organic AO-CAP
March 21, 2003: Product Update – E-spec Implementation

Component Outline Drawing



Case Codes		Component Dimensions					
		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	0.9	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

Component Marking



Part Number and Electrical Specification Table

KEMET Part Number	Case	Cap μF	Voltage VDC	DCL @V _R	DF @ 120Hz
A700V107M002ATE***	V/7343-20	100	2	12.0 μA	6 %
A700V157M002ATE***	V/7343-20	150	2	18.0 μA	6 %
A700D187M002ATE***	D/7343-31	180	2	21.6 μA	6 %
A700D227M002ATE***	D/7343-31	220	2	26.4 μA	6 %
A700X277M002ATE***	X/7343-43	270	2	32.4 μA	6 %
A700X337M002ATE***	X/7343-43	330	2	39.6 μA	6 %
A700X397M002ATE***	X/7343-43	390	2	46.8 μA	6 %
A700X477M002ATE***	X/7343-43	470	2	56.4 μA	6 %
A700V826M004ATE***	V/7343-20	82	4	19.7 μA	6 %
A700D127M004ATE***	D/7343-31	120	4	28.8 μA	6 %
A700D157M004ATE***	D/7343-31	150	4	36.0 μA	6 %
A700X187M004ATE***	X/7343-43	180	4	43.2 μA	6 %
A700X227M004ATE***	X/7343-43	220	4	52.8 μA	6 %
A700X277M004ATE***	X/7343-43	270	4	64.8 μA	6 %
A700V336M006ATE***	V/7343-20	33	6.3	8.3 μA	6 %
A700V476M006ATE***	V/7343-20	47	6.3	11.8 μA	6 %
A700V566M006ATE***	V/7343-20	56	6.3	14.1 μA	6 %
A700V686M006ATE***	V/7343-20	68	6.3	17.1 μA	6 %
A700D107M006ATE***	D/7343-31	100	6.3	25.2 μA	6 %
A700X157M006ATE***	X/7343-43	150	6.3	37.8 μA	6 %
A700X187M006ATE***	X/7343-43	180	6.3	45.4 μA	6 %
A700V336M008ATE***	V/7343-20	33	8	10.6 μA	6 %
A700V336M010ATE***	V/7343-20	33	10	13.2 μA	6 %
A700D566M010ATE***	D/7343-31	56	10	22.4 μA	6 %
A700X107M010ATE***	X/7343-43	100	10	40.0 μA	6 %

*** Insert E-spec (ESR Spec) From Table Below

Note that DC leakage limits are after a minimum of 2 minutes charge time at rated voltage

A700 Series - KEMET Aluminum-Organic AO-CAP
March 21, 2003: Product Update – E-spec Implementation

ESR Ratings / Ripple Current Using E-spec

Case Size	E-Spec	ESR @ 100kHz (mW)	Ripple Current (Arms) @100 kHz [+T Rise@T _{Amb}] +20°C@ (-55°C to 105°C)
V/7343-20	E025	25	2.2
V/7343-20	E028	28	2.1
D/7343-31	E015	15	3.4
D/7343-31	E018	18	2.9
X/7343-43	E010	10	4.2
X/7343-43	E015	15	3.4

2.5 Volt Part Number and Electrical Specification Table: Using C-spec 6003

KEMET Part Number	Case	Cap μF	Voltage VDC	DCL @V _R	DF @ 120Hz	ESR @ 100kHz (mΩ)	Ripple Current (Arms) @100 kHz [+T Rise@T _{Amb}] +20°C@ (-55°C to 105°C)
A700V826M004AT 6003	V/7343-20	82	2.5	12.3 μA	6 %	28	2.1
A700D157M004AT 6003	D/7343-31	150	2.5	22.5 μA	6 %	18	2.9
A700X227M004AT 6003	X/7343-43	220	2.5	33.0 μA	6 %	15	3.4

Land Pattern Dimensions for Reflow Solder

KEMET/EIA Size Code	Pad Dimensions				
	Z	G	X	Y (ref)	C (ref)
V/7343-20, D/7343-31, X/7343-43	8.90	3.80	2.70	2.55	6.35

Packaging Specifications

Case Codes		Tape and Reel Dimensions					
		Tape Width (mm)	Pitch mm ±0.1		Reel Quantity		
KEMET	EIA 7343-		Part	Sprocket	180mm (7"dia)	330mm (13"dia)	
V	20	12±0.3	8	4	1000	3000	
D	31	12±0.3	8	4	500	2500	
X	43	12±0.3	8	4	500	2000	

