

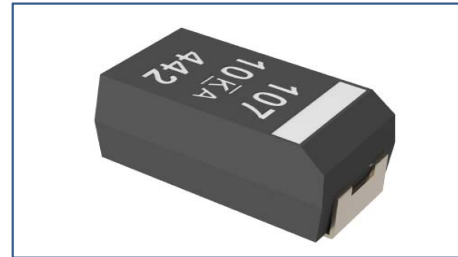
# T591 Series

## Data Sheet



### Specifications

Item	Performance Characteristics
Operating Temperature	-55° C to 105° C / 125° C *
Capacitance Value	100 - 330 $\mu$ F @ 120 Hz/25° C
Capacitance Tolerance	M Tolerance ( $\pm$ 20%)
Rated Voltage	2.5 - 10V
DF(120Hz)	Refer to Part Number Electrical Specification
ESR (100KHz)	Refer to Part Number Electrical Specification
Leakage Current	$\leq$ 0.1CV ( $\mu$ A) at rated voltage after 5 minutes
Lead Finish	100% Tin (Sn) Plated
Packaging	7" reel of 500 pcs
MSL	Level 3



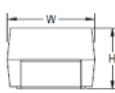
\* Refer to part number specifications for individual temperature classification

### Part Number Explanation

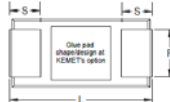
T	520	V	157	M	006	A	T	E045
Capacitor Class	Series	Case Size	Capacitance Code (pF)	Capacitance Tolerance	Voltage	Failure Rate/ Design	Lead Material	E-SPEC
T = Tantalum	Polymer Tantalum Capacitor	V/7343-20 D/7343-31	First two digits represent significant figures. Third digit specifies number of zeros.	M = $\pm$ 20%	006 = 6.3V 2R5 = 2.5V 010 = 10 V	A = N/A	T = 100% Tin Plated	Maximum ESR at 25°C = 45m $\Omega$

### Component Dimensions

CATHODE (-) END VIEW



BOTTOM VIEW



Case Codes		Component Dimensions (mm)					
KEMET	EIA	L	W	H	F $\pm$ 0.1	S $\pm$ 0.3	
V	7343-20	7.3 $\pm$ 0.3	4.3 $\pm$ 0.3	1.9 $\pm$ 0.1	2.4	1.3	
D	7343-31	7.3 $\pm$ 0.3	4.3 $\pm$ 0.3	2.8 $\pm$ 0.3	2.4	1.3	

### Part Number and Electrical Specification Table

Rated Voltage @ 105°C	Rated Cap ( $\mu$ F)	Case Size	KEMET Part Number	DC Leakage ( $\mu$ A) @25°C Max	DF % @ 25°C 120Hz Max	ESR mOhm @ 25°C 100kHz Max	Maximum Allowable Ripple Current	Maximum Operating Temp (°C)
2.5	330	V	T591V337M2R5ATE012	83	10	12	3947	105
2.5	330	V	T591V337M2R5ATE025	83	10	25	2735	105
6.3	150	V	T591V157M006ATE025	95	10	25	2735	125
6.3	150	V	T591V157M006ATE045	95	10	45	2039	125
6.3	330	D	T591D337M006ATE025	208	10	25	3000	125
6.3	330	D	T591D337M006ATE040	208	10	40	2372	125
6.3	330	D	T591D337M006ATE080	208	10	80	1677	125
10	100	V	T591V107M010ATE025	100	10	25	2735	125
10	100	V	T591V107M010ATE045	100	10	45	2039	125
10	220	D	T591D227M010ATE025	220	10	25	3000	125
10	220	D	T591D227M010ATE040	220	10	40	2372	125
10	220	D	T591D227M010ATE080	220	10	80	1677	125

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