

T521 Series - High Voltage Polymer

Product Specification

Features

- High Voltage (16V - 35V)
 - Up to 68 μ F Capacitance value
 - High Ripple Current Capability
 - Volumetrically Efficient
 - Safe failure mode
 - Low ESR
 - Stable temperature characteristics
 - Pb Free*/RoHS Compliant & Halogen Free
- * When ordered with 100% Sn Termination Finish

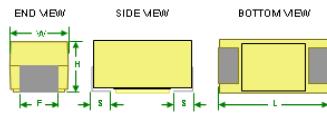
Specifications

Item	Performance Characteristics					
Operating Temperature	-55° C to 105/125° C**					
Rated Capacitance Range	15 μ F - 68 μ F @ 120 Hz/25° C					
Capacitance Tolerance	M Tolerance (20%)					
Rated Voltage Range	16V - 35V					
Dissipation Factor (DF)	\leq 10%					
ESR (100KHz)	Refer to Part Number Electrical Specification Table					
Leakage Current	\leq 0.1CV (μ A) at Rated Voltage after 5 minutes					
Endurance	105° C @ Rated Voltage, 2000 Hrs. 125° C @ 2/3 Rated Voltage, 2000 Hrs.**	Δ C/C	Within -20/+10 of initial value			
		DF	\leq Initial Limit			
		DCL	IL @ 105° C, 2x IL @ 125° C			
		ESR	2x Initial Limit			
Humidity	60° C, 90% RH, 500Hr, No Load	Δ C/C	Within -5%/+35% of initial value			
		DF	\leq 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, +105/125 C, +25 C.	Δ C/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
		ESR	Within initial limits			
Surge Voltage	105° C, 1.32 x Rated Voltage 1000 cycles	Δ C/C	Within -20/+10 of initial value			
		DF	Within initial limits			
		DCL	Within initial limits			
		ESR	Within initial limits			

* IL = Initial Limit

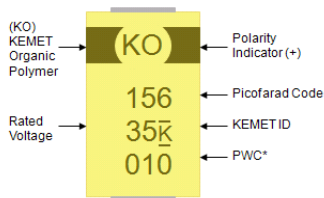
**Refer to part number specifications for individual temperature classification.

Component Dimensions and Case Codes



Case Codes		Component Dimensions (mm)				
		L	W	H	F \pm 0.1	S \pm 0.3
KEMET	EIA					
V	7343-20	7.3 \pm 0.3	4.3 \pm 0.3	1.9 max	2.4	1.3
W	7343-15	7.3 \pm 0.3	4.3 \pm 0.3	1.5 max	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
X	7343-43	7.3 \pm 0.3	4.3 \pm 0.3	4.0 \pm 0.3	2.4	1.3

Component Marking



* 010 = 10th week of 2010

Explanation of Part Number

T521 Series	V Case Code	156 Capacitance	M Capacitance tolerance (M=20%)	035 Voltage	A Failure Rate (A=Not Applicable)	I Termination material (T = 100% Sn (H = 90%Sn/10%Pb))	E125 Maximum ESR Limit (E125=125m Ω)
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Part Number Specification

KEMET Part Number	Rated Temp (C°)	Case Code/ EIA Case Size	Cap (μ F)	Voltage	DCL VR (μ A)	DF 120Hz (%)	ESR 100KHz* (m Ω)	Maximum allowable ripple current (mA Arms) 100kHz*	MSL Reflow Temp \leq 260°C
T521V686M016A(1)E050#	105	V/7343-20	68	16	108.8	10	50	1900.0	3.0
T521V476M020A(1)E090	125	V/7343-20	47	20	94.0	10	90	1400.0	3.0
T521V476M020A(1)E055	125	V/7343-20	47	20	94.0	10	55	1800.0	3.0
T521D476M020A(1)E055	125	D/7343-31	47	20	94.0	10	55	2000.0	3.0
T521V226M025A(1)E060	105	V/7343-20	22	25	55.0	10	60	1800.0	3.0
T521V336M025A(1)E060	105	V/7343-20	33	25	82.5	10	60	1800.0	3.0
T521D336M025A(1)E060	105	D/7343-31	33	25	82.5	10	60	1900.0	3.0
T521V156M035A(1)E125	125	V/7343-20	15	35	52.5	10	125	1200.0	3.0
T521X476M035A(1)E070	125	X/7343-43	47	35	164.5	10	70	1900.0	3.0

(1) To complete KEMET Part Number, insert letter designation for lead frame material

*100KHz to 500KHz, 45 C