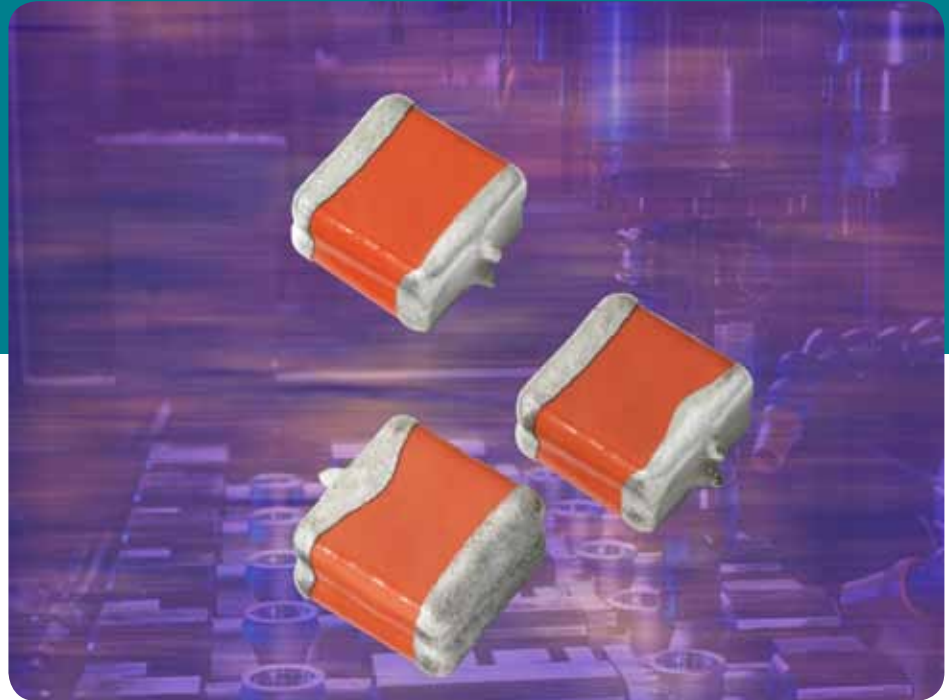




75 V RATED TANTALUM CAPACITORS

597D



Industrial-Grade Tantalum Capacitors

FEATURES

- Highest available capacitance and voltage
- Ultra-low ESR as low as 0.015Ω
- State-of-the-art CV in a wide variety of case sizes
- Tin/lead (Sn/Pb) terminations standard; 100 % tin available

APPLICATIONS

- Power management
- Industrial automation and control systems
- Commercial avionics



Solid Tantalum Chip Capacitors TANTAMOUNT[®], Ultra-Low ESR, Conformal Coated, Maximum CV

FEATURES

- New case size offerings
- Low profile case: V case (2 mm)
- Terminations: Tin (2) standard
- Extremely low ESR
- Ripple current up to 4.1 A
- Compliant to RoHS directive 2002/95/EC



PERFORMANCE CHARACTERISTICS

Operating Temperature: - 55 °C to + 85 °C

(To + 125 °C with voltage derating)

Note: Refer to doc. 40088

Capacitance Range: 10 µF to 1500 µF
 Capacitance Tolerance: ± 10 %, ± 20 % standard
 Voltage Rating: 4 WV_{DC} to 75 WV_{DC}



RoHS* COMPLIANT

ORDERING INFORMATION

597D TYPE	687 CAPACITANCE	X0 CAPACITANCE TOLERANCE	6R3 DC VOLTAGE RATING AT +85 °C	E CASE CODE	2 TERMINATION	T REEL SIZE AND PACKAGING
	This is expressed in pF. The first two digits are the significant figures. The third is the number of zeros to follow.	X0 = ± 20 % X9 = ± 10 %	This is expressed in V. To complete the three-digit block, zeros precede the voltage rating. A decimal point precedes an "R" (6R9 = 6.3 V).	See Ratings and Case Code table	2 = 100 % tin plated (60/40) special order	T = Tape and reel 7" [500] reel W = 13" [N/A] reel

Note

- Preferred tolerance and reel sizes are in bold. We reserve the right to supply higher voltage ratings and tighter capacitance tolerance capacitors in the same case size. Voltage substitutions will be marked with the higher voltage rating

RATINGS AND CASE CODE

µF	4 V	6.3 V	10 V	16 V	20 V	25 V	35 V	50 V	63 V	75 V
10									D	R ¹
15								E/R	R	
22								R	F	
33								F		
47								Z		
68						R	R	F*		
100						F*	F*			
150										
220				E	R					
330										
470	V	E	E	H						
680	E	E	R							
1000	E/R	R	F							
1500	R									

DIMENSIONS in inches [millimeters]

CASE CODE	L	W	H	A	B	D (REF.)	J (MAX.)
E	0.287 ± 0.012 [7.3 ± 0.3]	0.178 ± 0.016 [4.4 ± 0.4]	0.157 ± 0.016 [4.0 ± 0.4]	0.051 ± 0.012 [1.3 ± 0.3]	0.189 ± 0.025 [4.6 ± 0.6]	0.253 [6.4]	0.004 [0.1]
F	0.287 ± 0.012 [7.3 ± 0.3]	0.238 ± 0.016 [6.0 ± 0.4]	0.187 ± 0.016 [4.7 ± 0.4]	0.051 ± 0.012 [1.3 ± 0.3]	0.189 ± 0.025 [4.6 ± 0.6]	0.243 [6.2]	0.004 [0.1]
R	0.287 ± 0.012 [7.3 ± 0.3]	0.238 ± 0.016/-0.024 [6.0 ± 0.4/-0.6]	0.142 ± 0.016 [3.6 ± 0.4]	0.051 ± 0.012 [1.3 ± 0.3]	0.189 ± 0.025 [4.6 ± 0.6]	0.243 [6.2]	0.004 [0.1]
V	0.287 ± 0.012 [7.3 ± 0.3]	0.178 ± 0.016 [4.4 ± 0.4]	0.079 [2.0]Max	0.051 ± 0.012 [1.3 ± 0.3]	0.189 ± 0.025 [4.6 ± 0.6]	0.253 [6.4]	0.004 [0.1]
Z	0.287 ± 0.012 [7.3 ± 0.3]	0.238 ± 0.016 [6.0 ± 0.4]	0.238 ± 0.016 [6.0 ± 0.4]	0.051 ± 0.012 [1.3 ± 0.3]	0.189 ± 0.025 [4.6 ± 0.6]	0.243 [6.2]	0.004 [0.1]
D	0.287 ± 0.012 [7.3 ± 0.3]	0.178 ± 0.016 [4.4 ± 0.4]	0.137 [3.5]Max	0.051 ± 0.012 [1.3 ± 0.3]	0.189 ± 0.025 [4.6 ± 0.6]	0.253 [6.4]	0.004 [0.1]
M	0.303 ± 0.012 [7.7 ± 0.3]	0.259 ± 0.016 [6.6 ± 0.4]	0.141 ± 0.016 [3.6 ± 0.4]	0.051 ± 0.012 [1.3 ± 0.3]	0.198 ± 0.025 [5.0 ± 0.6]	0.259 [6.6]	0.004 [0.1]
H	0.303 ± 0.012 [7.7 ± 0.3]	0.259 ± 0.016 [6.6 ± 0.4]	0.204 ± 0.016 [5.2 ± 0.4]	0.051 ± 0.012 [1.3 ± 0.3]	0.198 ± 0.025 [5.0 ± 0.6]	0.259 [6.6]	0.004 [0.1]
N	0.303 ± 0.012 [7.7 ± 0.3]	0.259 ± 0.016 [6.6 ± 0.4]	0.259 ± 0.016 [6.6 ± 0.4]	0.051 ± 0.012 [1.3 ± 0.3]	0.198 ± 0.025 [5.0 ± 0.6]	0.259 [6.6]	0.004 [0.1]

Note

- The anode termination (D less B) will be a minimum of 0.012" [0.3 mm]
- *Pb containing terminations are not RoHS compliant, exemptions may apply

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