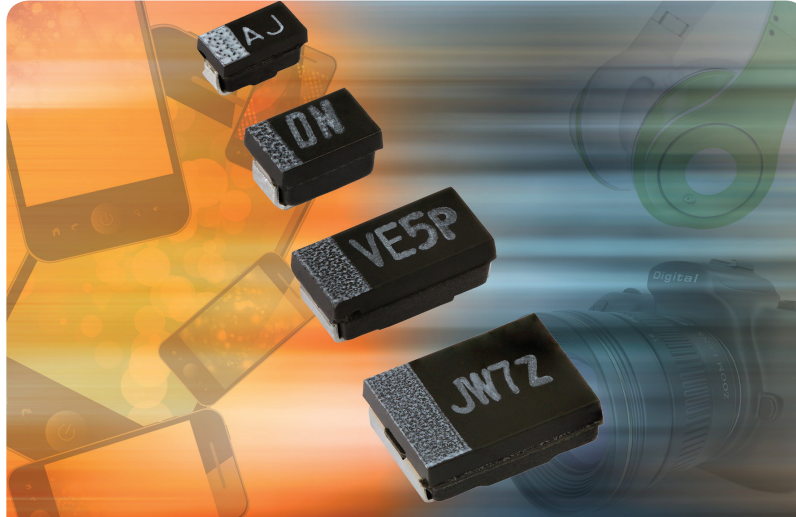


### Solid Tantalum SMD, Molded Case Standard Industrial-Grade Capacitors



#### KEY BENEFITS

- Broad capacitance range: 0.10  $\mu\text{F}$  to 1000  $\mu\text{F}$
- Broad voltage range: 2.5  $V_{\text{DC}}$  to 75  $V_{\text{DC}}$
- Molded cases available in eight EIA case sizes and two low profile case sizes
- Established product line
- Tape and reel to EIA standard; allows high speed insertion
- Qualified to EIA-717

#### APPLICATIONS

- PCs and servers
- Workstations
- Converters
- Consumer electronics
- Power supplies
- Audio
- Industry

#### RESOURCES

- Datasheet: 293D <http://www.vishay.com/doc?40002>
- TCMC: <http://www.vishay.com/doc?40178>
- TMCU: <http://www.vishay.com/doc?40180>
- TMCJ: <http://www.vishay.com/doc?40176>
- TMCP: <http://www.vishay.com/doc?40179>
- Technical questions: [contact\\_tantalum@vishay.com](mailto:contact_tantalum@vishay.com)
- Sales contacts: <http://www.vishay.com/doc?99914>
- Material categorization: For definitions of compliance please see <http://www.vishay.com/doc?99912>



HALOGEN  
**FREE**

RoHS\*  
Available

**GREEN**  
(5-2008)\*\*  
Available

A WORLD OF  
**SOLUTIONS**



### RATINGS AND CASE CODES

µF	2.5 V			4 V			6.3 V			10 V			16 V			20 V			25 V			35 V			50 V	63 V	75 V			
	TMCM	TMCU	TMCP	TMCM	TMCU	TMCP	TMCM	TMCU	TMCP	TMCM	TMCU	TMCP	TMCM	TMCU	TMCP	TMCM	TMCU	TMCP	TMCM	TMCU	TMCP	TMCM	TMCU	TMCP	TMCM	TMCU	TMCP			
0.10			P																		P	A					A			
0.15			P																			P	A					A/B		B
0.22			P																			P	A					A/B		B
0.33			P																			P	A					A/B		B
0.47							A															P	A					A/B		B
0.68									A													P	A					A/B		B
1.0							A															P	A				A/B		B	
1.5								A														P	A					A/B		B
2.2							A															P	A					A/B		B
3.3																						P	A					A/B		B
4.7			J				J															P	A					A/B		B
6.8	A		J				J															P	A					A/B		B
10	A		J				J															P	A					A/B		B
15	A		J				J															P	A					A/B		B
22	A/B		J				J															P	A					A/B		B
33	A/B		J				J															P	A					A/B		B
47	A/B		J				J															P	A					A/B		B
68	A/B/C		J				J															P	A					A/B/C		B
100	A/B/C		J				J															P	A					A/B/C		B
120	A/B/C		J				J															P	A					A/B/C		B
150	A/B/C		J				J															P	A					A/B/C		B
220	A/B/C		J				J															P	A					A/B/C		B
330	A/B/C		J				J															P	A					A/B/C		B
470	A/B/C		J				J															P	A					A/B/C		B
680	A/B/C		J				J															P	A					A/B/C		B
1000	A/B/C		J				J															P	A					A/B/C		B

### CASE SIZES

EIA SIZE	CASE CODE	L	W	H
1608-09	J	0.063 ± 0.004 [1.6 ± 0.1]	0.031 ± 0.004 [0.8 ± 0.1]	0.031 ± 0.004 [0.8 ± 0.1]
2012-12	P	0.080 ± 0.008 [2.0 ± 0.2]	0.049 ± 0.008 [1.25 ± 0.2]	0.047 max. [1.2 max.]
3216-12	UA	0.126 ± 0.008 [3.2 ± 0.2]	0.063 ± 0.008 [1.6 ± 0.2]	0.063 max. [1.2 max.]
3216-18	A	0.126 ± 0.008 [3.2 ± 0.2]	0.063 ± 0.008 [1.6 ± 0.2]	0.063 ± 0.008 [1.6 ± 0.2]
3528-12	UB	0.138 ± 0.008 [3.5 ± 0.2]	0.110 ± 0.008 [2.8 ± 0.2]	0.047 max. [1.2 max.]
3528-21	B	0.138 ± 0.008 [3.5 ± 0.2]	0.110 ± 0.008 [2.8 ± 0.2]	0.075 ± 0.008 [1.9 ± 0.2]
6032-28	C	0.236 ± 0.012 [6.0 ± 0.3]	0.126 ± 0.012 [3.2 ± 0.3]	0.098 ± 0.012 [2.5 ± 0.3]
7343-20	V	0.287 ± 0.012 [7.3 ± 0.3]	0.169 ± 0.012 [4.3 ± 0.3]	0.169 ± 0.012 [4.3 ± 0.3]
7343-30	E <sup>(1)</sup> - TMGM	0.287 ± 0.008 [7.3 ± 0.2]	0.169 ± 0.012 [4.3 ± 0.3]	0.079 max [2.0 max] [2.8 ± 0.2]
7343-31	D	0.287 ± 0.012 [7.3 ± 0.3]	0.169 ± 0.012 [4.3 ± 0.3]	0.110 ± 0.012 [2.8 ± 0.3]
7343-43	E - 283D	0.287 ± 0.012 [7.3 ± 0.3]	0.169 ± 0.012 [4.3 ± 0.3]	0.157 ± 0.012 [4.0 ± 0.3]