VISHAY INTERTECHNOLOGY, INC.



CAPACITORS 592D SERIES TANTALUM

592D Series Conformal-Coated Solid Tantalum Capacitors



KEY BENEFITS

- Highest capacitance offered in a low-profile case (case heights between 1.3mm 2.0mm)
- Low ESR: as low as $35 \text{ m}\Omega$ with the 591D Series
- Very high capacitance: up to 2200 μF
- Design convenience, efficiency and portability
- Low ESL: inductance of conformal construction is 1/3 of molded chips
- · Cost-savings; ability to replace several lesser-value capacitors

APPLICATIONS

- Bulk capacitance used in voltage holdup for power amplifiers in wireless data communications
- Noise suppression

RESOURCES

- Datasheet: <u>http://www.vishay.com/doc?40004</u>
- Tantalum product portfolio: http://www.vishay.com/capacitors/tantalum/
- FIT calculator: <u>http://www.vishay.com/capacitors/tantalum/capacitors/tantalum/tantalum-wet/</u> <u>tantalum-reliability-calculator-list/</u>
- Technical questions: <u>contact tantalum@vishay.com</u>
- Sales contacts: <u>http://www.vishay.com/doc?99914</u>
- Material categorization: For definitions of compliance please see http://www.vishay.com/doc?99912

RoHS	HALOGEN	<u>GREEN</u>
COMPLIANT	FREE	<u>(5-2008)</u>





Filtering

Coupling

Timing



592D SERIES TANTALUM

RATINGS AND CASE CODES								
μF	4 V	6.3 V	10 V	16 V	20 V	25 V	35 V	50 V
1.0							A/B	В
1.5							В	
2.2					A	A/B	B/C	С
3.3						B/C	C/D	С
4.7			A	A	A/B	С	B/C/D/R	C/R
6.8			A	A/B	B/C	C/D	D/R	R
10		A	A/B	B/C	B/C/D	B/D/R	R	R
15		A/B	В	B/C/D	C/D/R	R		
22	A/B	A/B	A/B/C	B/C/D	B/D/R			
33	В	A/B/C/S	C/D	B/C/D/R	R			
47	С	A/B/C/D	B/D/R	B/C/R				
68	B/C/D	B/C/D/R	B/C/D/R	C/D		R		
100	A/B/C/D/R	B/C/D/R	B/C/D/R	C/D				
120		С						
150	B/C/D/R	C/D/R	C/D	D/R				
220	C/D/R	C/D/R	D/R	R				
330	C/D	C/D/R	D/R					
470	C/D/R	C/D/R						
680	D/R	R	Х					
1000	R	R/X						
1500	Х	M/R/X						
2200	Х	Х						

ORDERING INFORMATION								
592D	106	X0	010	В	2	т	15H	
TYPE	CAPACITANCE	CAPACITANCE	DC VOLTAGE RATING AT + 85 °C	CASE	TERMINATION	REEL SIZE AND PACKAGING	SUFFIX	
	This is expressed in picofarads. 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 volts. To complete the three-digit block, zeros precede the voltage rating. A decimal point is indicated by an "R" (6R3 = 6.3 V).	See Ratings and Case Codes table	2 = 100 % tin 4 = Gold plated 8 = Solder plated 60/40 Special order	T = Tape and reel 7" [178 mm] reel W = 13" [330 mm] reel	Maximum height (mm) see Standard Ratings table	

Note

• Preferred tolerance and reel sizes are in bold.

We reserve the right to substitute form-fit-function replacement products with higher voltage rating, tighter capacitance tolerance or lower ESR (e.g., 591D series).



Notes

The anode termination (D less B) will be a minimum of 0.012" [0.3 mm]

· For package height, please refer to specific rating in the "Standard Ratings" table

PRODUCT SHEET

2/2