

# VISHAY / SPRAGUE Solid Tantalum Chip Capacitors

RoHS Compliant This product is RoHS compliant.

## 298D SERIES: MICROTAN® LEAD FRAMELESS MOLDED

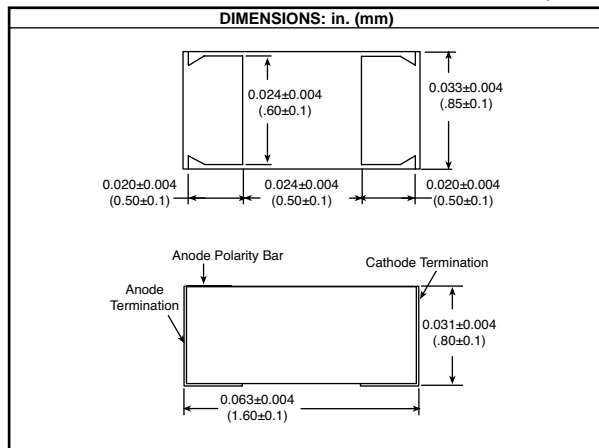
### Features:

- Operating temperature: -55°C to +85°C (To +125°C with voltage derating)
- Capacitance tolerance: ±20% standard
- 0805 and 0603 footprint
- Lead (Pb)-free face-down terminations
- 8mm tape and reel packaging available, 7" (178mm) standard
- Reels of 4000 are also available.
- Contact a Mouser Representative.



For reels or quantities of 2000 and up, call for quote.

MOUSER STOCK NO.	Vishay Part No.	Case Code	Value (µF)	Price Each				
				1	25	100	500	1000
<b>6.3 Volt</b>								
71-298D475X06R3M2T	298D475X06R3M2T	M	4.7					
71-298D106X06R3M2T	298D106X06R3M2T	M	10					
<b>10 Volt</b>								
71-298D475X0010M2T	298D475X0010M2T	M	4.7					
71-298D106X0010M2T	298D106X0010M2T	M	10					
<b>16 Volt</b>								
71-298D105X0016M2T	298D105X0016M2T	M	1.0					

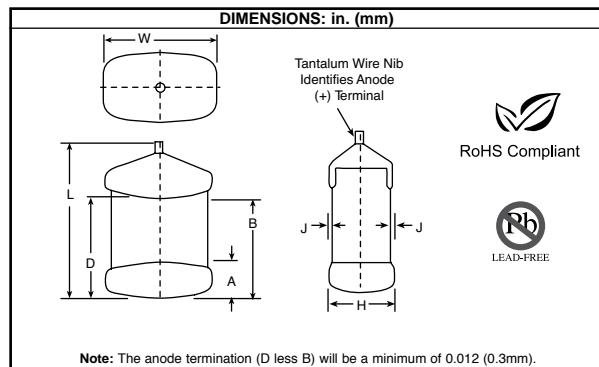


## 592D SERIES: TANTAMOUNT®, LOW PROFILE, CONFORMAL COATED, MAXIMUM CV

### Features:

- New extended range offerings
- 1.0mm and 2.5mm Height
- Terminations: Lead (Pb)-free
- Case code compatibility with EIA 535BAAC and CECC 30801 molded chips
- Low Impedance
- Operating Temperature: -55°C to +85°C
- 10% Tolerance stocked, 20% tolerance available

Case Code	Suffix	DIMENSIONS: in. (mm)							
		H	L (Max.)	W	A	B	D (Ref.)	J (Max.)	
B	15H	0.047±0.012 (1.2±0.3)	0.158 (4.0)	0.110 ± 0.012 (2.8±0.3)	0.031±0.012 (0.80±0.3)	0.097±0.016 (2.5±0.4)	0.139 (3.5)	0.004 (0.1)	
R	20H	0.079 (2.0 max.)	0.285 (7.2)	0.235±0.012 (6.0±0.3)	0.051±0.012 (1.3±0.3)	0.180±0.024 (4.6±0.6)	0.246 (6.2)	0.004 (0.1)	
X	20H	0.079 (2.0 max.)	0.575 (14.5)	0.290±0.010 (7.37±0.25)	0.051±0.016 (1.3±0.4)	0.470±0.024 (11.9±0.6)	0.524 (13.2)	0.004 (0.1)	
X	25H	0.098 (2.5 max.)	0.575 (14.5)	0.290±0.010 (7.37±0.25)	0.051±0.016 (1.3±0.4)	0.470±0.024 (11.9±0.6)	0.524 (13.2)	0.004 (0.1)	



For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Vishay Part No.	Value (µF)	Case Code	Max. DCL @ +25°C (µA)	Max. DF @ +25°C (%)	Max. ESR @ +25°C, 100kHz (Ω)	Price Each			Reel Quantity	Price Per Piece
							1	10	50		
<b>6.3 Volt</b>											
74-592D477X96R3W2T	592D477X96R3R2T20H	470	R	29.6	10	0.1				1000	
74-592D108X96R3X2T	592D108X96R3X2T20H	1000	X	63	16	0.04				500	
74-592D158X96R3X2T	592D158X96R3X2T25H	1500	X	95	25	0.045				500	
74-592D228X96R3X2T	592D228X96R3X2T20H	2200	X	139	35	0.055				500	
<b>10 Volt</b>											
74-592D106X9010B2T	592D106X9010B2T15H	10	B	1	6	1.7				2000	
74-592D686X9010R2T	592D686X9010R2T15H	68	R	6.8	6	.20				1000	

## 597D SERIES: TANTAMOUNT® ULTRA-LOW ESR, CONFORMAL COATED, MAXIMUM CV

### Features:

- Operating temperature: -55°C to +85°C (To +125°C with voltage derating)
- Capacitance tolerance: ±10%, ±20% standard
- New case size offerings
- Case profiles: E case (4mm) and R case (3.6mm)
- Low profile case: V case (2mm)
- Terminations: Tin (2) standard
- Extremely low ESR
- Ripple current up to 4.1A
- Reels are available. Contact a Mouser Representative.



For reels or quantities of 2000 and up, call for quote.

MOUSER STOCK NO.	Vishay Part No.	Case Code	Value (µF)	Max. ESR @ +25°C, 100kHz (Ω)	Price Each				
					1	25	100	500	1000
<b>4 Volt</b>									
71-597D108X9004E2T	597D108X9004E2T	E	1000	0.020					
71-597D158X9004R2T	597D158X9004R2T	R	1500	0.015					
<b>6.3 Volt</b>									
71-597D337X96R3V2T	597D337X96R3V2T	V	330	0.035					
71-597D477X96R3E2T	597D477X96R3E2T	E	470	0.030					
71-597D687X96R3E2T	597D687X96R3E2T	E	680	0.025					
71-597D108X96R3R2T	597D108X96R3R2T	R	1000	0.020					
<b>10 Volt</b>									
71-597D337X9010E2T	597D337X9010E2T	E	330	0.035					
71-597D477X9010E2T	597D477X9010E2T	E	470	0.028					
71-597D687X9010R2T	597D687X9010R2T	R	680	0.028					
<b>16 Volt</b>									
71-597D227X9016E2T	597D227X9016E2T	E	220	0.040					
<b>50 Volt</b>									
71-597D226X9050R2T	597D226X9050R2T	R	22	0.170					

Code	Full Reel Quantity	DIMENSIONS: in. (mm)		
		W	H	D (Ref.)
E	500	0.173±0.016 (4.4±0.4)	0.157±0.016 (4.0±0.4)	0.253 (6.4)
R	300	0.238±0.016 (6.0±0.4)	0.142±0.016 (3.6±0.4)	0.243 (6.2)
V	500	0.173±0.016 (4.4±0.4)	0.079 (2.0) max.	0.253 (6.4)

