



CAPACITORS – Model 292D

EIA 0805 Case Tantalum Capacitors

	Max. Cap. (μF)	Rated Voltage (V)	Rated ESR Limit @ 100 kHz in Ohms
292D	15	10	1.1
	22	6.3	1.1
	33	4	1.1
0805 Tantalum Competition	15	10	6.0
	22	6.3	6.0
	33	4	6.0

292D Leadframeless Tantalum Molded Chip Capacitor vs. MLCC

Most ratings available with ESR typical values of 1Ω or less, for LDO applications

FEATURES

- Tighter capacitance tolerances and increased stability over full temperature range (- 55 °C to + 125 °C)
- Higher capacitance values available at lower voltages in 0805 package with 1.2 mm and 1.6 mm maximum height
- No piezoelectric (microphonic) effect
- Better mechanical stress performance

APPLICATIONS

- Hearing aids
- High-end portables, phones
- Small portable information appliances
- PDA's



292D

Solid Tantalum Chip Capacitors, Tantamount® Leadless Molded

Vishay Sprague

FEATURES

- 0805 Footprint
- 1.2mm and 1.55mm max. height.
- Terminations: Wraparound Lead (Pb)-Free.
- 8mm tape and reel packaging available per EIA 481-1 and reeling per IEC 286-3, 7" [178mm] standard. 13" [330mm] available.

PERFORMANCE CHARACTERISTICS

Operating Temperature: -55°C to +85°C (to +125°C voltage derating)

Capacitance Range: 1.0µF to 47µF

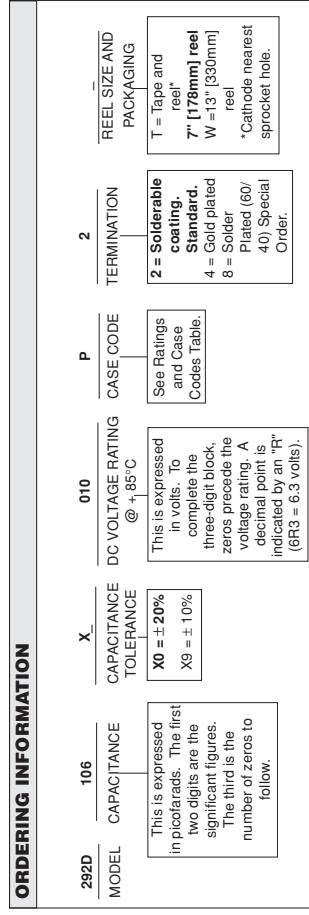
Capacitance Tolerance: ± 10%, ± 20% standard

Voltage Rating: 4WVDC to 10WVDC

ORDERING INFORMATION

STANDARD RATINGS		CASE CODE	PART NUMBER	MAX DCL @ 45°C (µA)	MAX DF @ +25°C (%)	MAX ESR @ 100KHz (Ω)	MAX RIPPLE 100KHz IRMS (AMPS)
47*	P*	292D475X_005P2T	3WVDC @ + 85°C, SURGE = 3.9V, SURGE = 2.9V	1.41*	8*	6*	0.065*
		4WVDC @ + 85°C, SURGE = 5.2V, SURGE = 2.7WVDC @ + 125°C, SURGE = 3.4V					
6.8	R	292D685X_004R2T	0.5	6	5.5	0.067	
10	R	292D106X_004R2T	0.5	6	5.1	0.070	
15	R	292D156X_004R2T	0.8	8	3.5	0.085	
22	P	292D226X_004R2T	0.9	8	3.5	0.085	
22	R	292D226X_004R2T	0.9	10	3.5	0.085	
33	P	292D336X_004P2T	1.3	10	3.5	0.085	
		6.3WVDC @ + 85°C, SURGE = 4.4WVDC @ + 125°C, SURGE = 5V					
2.2	R	292D225X_6R3R2T	0.14	10	3.0	0.091	
4.7	R	292D475X_6R6R2T	0.6	6	3.4	0.086	
6.8	R	292D685X_6R3R2T	0.5	6	5	0.071	
10	R	292D106X_6R3R2T	0.9	10	3.5	0.085	
15	R	292D156X_6R3R2T	0.9	10	3.5	0.085	
15	R	292D156X_6R3R2-035	0.9	10	1.8	0.118	
15	R	292D226X_6R3R2T	1.3	10	3.5	0.118	
22	P	292D226X_6R3P2-035	0.9	10	1.1	0.151	
22*	R*	292D226X_6R3R2T	0.9*	10*	3.5*	0.085*	
33*	P*	292D336X_6R3P2T	2.1*	10*	3.5*	0.085*	
		10WVDC @ + 85°C, SURGE = 13V, .7WVDC @ + 125°C, SURGE = 8V					
1	R	292D105X_01R2	0.5	4	9.6	0.051	
3.3	R	292D335X_010R2T	0.5	8	2.0	0.11	
3.3	R	292D335X_010R2-035	0.5	8	1.0	0.158	
3.3	P	292D335X_010P2T	0.5	8	2.0	0.11	
4.7	P	292D475X_010P2T	0.5	8	5.0	0.071	
4.7	R	292D475X_010R2T	0.5	8	5.0	0.071	
6.8	P	292D685X_010P2T	0.7	8	2.0	0.112	
6.8	R	292D685X_010R2T	0.7	8	2.0	0.112	
10	P	292D106X_010P2T	1.0	8	2.0	0.112	
10	R	292D106X_010R2T	1.0	8	2.0	0.112	
15	P	292D156X_010P2T	1.5	8	3.5	0.085	
15	P	292D156X_010P2-035	1.5	8	1.1	0.151	
		16WVDC @ + 85°C, SURGE = 20V, .10WVDC @ + 125°C, SURGE = 12V					
1	R	292D105X_016R2	0.5	4	9.3	0.052	
2.2	R	292D225X_016R2T	0.35	8	6	0.065	
3.3	R	292D335X_016R2T	0.53	8	6	0.065	
3.3	R	292D335X_016R2-035	0.53	8	3	0.091	
4.7	R	292D475X_016R2T	0.75	8	6	0.065	
10*	P*	292D105X_016P2T	1.6*	8*	6*	0.065*	
		20WVDC @ + 85°C, SURGE = 26V, .13WVDC @ + 125°C, SURGE = 16V					
1.0	R	292D105X_020R2T	0.2	8	5.0	0.071	
2.2*	R*	292D225X_020R2T	0.44*	8*	5.0*	0.071*	

*Preliminary values, contact factory for availability.



DIMENSIONS in inches [millimeters]

