



Surface Mount Low ESR Tantalum Capacitors

593D Series Specifications

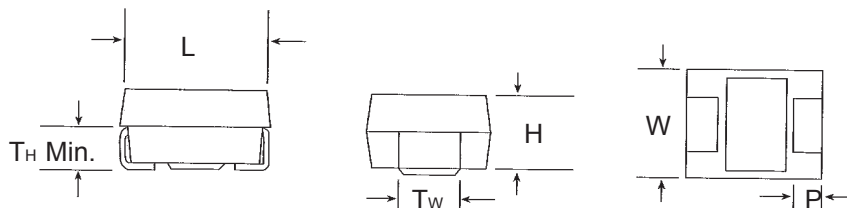


Part Number Determination

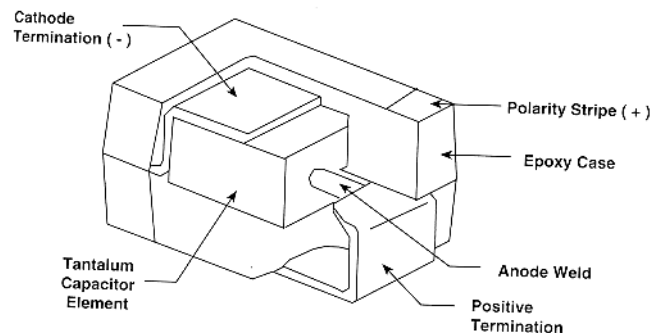
593D107X9010D2TE3					
593D	107	X9	010	D	2TE3
TYPE	CAPACITANCE CODE	TOLERANCE	VOLTAGE CODE	CASE CODE	TERMINATION & PACKAGING
Std Tantalum	in pF 2 significant digits and 3rd representing the number of zeros to follow	X0=±20% X9=±10% X5=±5%** **special order	6R3=6.3V 010=10V 016=16V 020=20V 025=25V 035=35V 050=50V	C=6032 D=7343 E=7343H	2T=Solderable Coating, 7" reel 2W=Solderable Coating, 13" reel 2TE3=100% tin terminations, 7" reel 2WE3=100% tin terminations, 13" reel 8T=90/10 SnPb solder plate terminations, 7" reel 8W=90/10 SnPb solder plate terminations, 13" reel

Package Dimensions (in/mm)

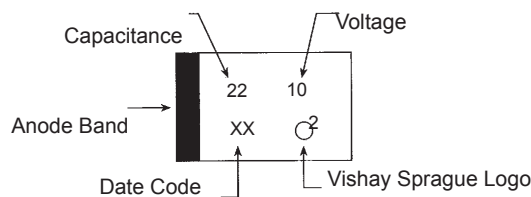
Case Code	EIA Size	L	W	H	P	T _W	T _H Min
A	3216-18	.126±.008 3.2±.20	.063±.008 1.6±.20	.063±.008 1.6±.20	.031±.012 .80±.30	.047±.004 1.2±.10	.028 .70
B	3528-21	.138±.008 3.5±.20	.110±.008 2.8±.20	.075±.008 1.9±.20	.031±.012 .80±.30	.087±.004 2.2±.10	.028 .70
C	6032-28	.236±.012 6.0±.30	.126±.012 3.2±.30	.098±.012 2.5±.30	.051±.012 1.3±.30	.087±.004 2.2±.10	.039 1.0
D	7343-31	.287±.012 7.3±.30	.170±.012 4.3±.30	.110±.012 2.8±.30	.051±.012 1.3±.30	.095±.004 2.5±.10	.039 1.0
E	7343-43	.287±.012 7.3±.30	.170±.012 4.3±.30	.158±.012 4.0±.30	.051±.012 1.3±.30	.095±.004 2.5±.10	.039 1.0



Construction



Marking





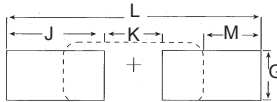
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593D Series Electrical Characteristics and Wave Solder, Reflow Data



Electrical Characteristics

	Part Number	Cap (uF)	Case Code	Max DC Leakage @ + 25°C (uA)	Max DF @ + 25°C 120 Hz (%)	Max ESR @ + 25°C 100kHz (Ohms)	Max Ripple 100kHz Irms (Amps)
4V	593D687X9004E2TE3	680	E	27.2	12	0.100	1.28
	593D107X96R3C2TE3	100	C	6.0	6	0.250	0.66
6.3V	593D477X96R3E2TE3	470	E	28.2	10	0.100	1.28
	593D106X9010A2TE3	10	A	1.0	6	2.00	0.19
10V	593D336X9010B2TE3	33	B	3.3	6	0.600	0.38
	593D336X9010C2TE3	33	C	2.6	4	0.300	0.61
	593D476X9010B2TE3	47	B	4.7	6	0.600	0.38
	593D107X9010C2T3E	100	C	10.0	8	0.200	0.74
	593D107X9010D2TE3	100	D	8.0	6	0.100	1.22
	593D157X9010D2TE3	150	D	15	8	0.100	1.22
	593D227X9010D2TE3	220	D	22.0	8	0.125	1.10
	593D227X9010E2TE3	220	E	22	8	0.100	1.28
	593D337X9010E2TE3	330	E	19.8	8	0.100	1.28
	16V	593D475X9016A2TE3	4.7	A	0.8	6	2.5
593D106X9016B2TE3		10	B	1.6	6	0.8	0.33
593D226X9016C2TE3		22	C	2.8	4	0.350	0.56
593D336X9016C2TE3		33	C	4.2	4	0.300	0.58
593D476X9016D2TE3		47	D	6.0	4	0.150	1.00
593D686X9016D2TE3		68	D	10.9	6	0.150	1.00
593D107X9016D2TE3		100	D	12.8	6	0.125	1.10
593D157X9016E2TE3		150	E	24.0	8	0.10	1.28
20V	595D225X9020A2TE3	2.2	A	0.5	6	4.00	0.14
	593D336X9020D2TE3	33	D	6.6	6	0.20	0.87
	593D476X9020D2TE3	47	D	7.5	4	0.200	0.87
	593D686X9020E2TE3	68	E	13.6	6	0.150	1.05
	593D107X9020E2TE3	100	E	20.0	8	0.150	1.05
	593D105X9025A2TE3	1.0	A	0.5	4	4.00	0.14
25V	593D106X9025C2TE3	10	C	2.5	6	0.450	0.49
	593D226X9025D2TE3	22	D	4.4	4	0.200	0.8
	593D474X9035A2TE3	0.47	A	0.5	4	4.00	.014
35V	593D105X9035A2TE3	1.0	B	0.5	4	2.00	0.21
	593D475X9035C2TE3	4.7	C	1.6	6	0.500	0.47
	593D685X9035D2TE3	6.8	D	2.4	6	0.300	0.71



Land Pattern for Wave Solder

CASE CODE	G Min	J Min	K Nom	L Nom	M Nom
B	.061 (1.54)	.085 (2.15)	.065 (1.65)	.234 (5.95)	.048 (1.23)
C	.061 (1.54)	.106 (2.70)	.124 (3.15)	.337 (8.55)	.050 (1.28)
D	.066 (1.68)	.106 (2.70)	.175 (4.45)	.388 (9.85)	.050 (1.28)
E	.066 (1.68)	.106 (2.70)	.175 (4.45)	.388 (9.85)	.050 (1.28)

Land Pattern for Reflow Solder

CASE CODE	G Min	J Min	K Nom	L Nom	M Nom
B	.110 (2.80)	.085 (2.15)	.065 (1.65)	.234 (5.95)	.048 (1.23)
C	.110 (2.80)	.106 (2.70)	.124 (3.15)	.337 (8.55)	.050 (1.28)
D	.118 (3.00)	.106 (2.70)	.175 (4.45)	.388 (9.85)	.050 (1.28)
E	.118 (3.00)	.106 (2.70)	.175 (4.45)	.388 (9.85)	.050 (1.28)