

Surface Mount Low ESR Tantalum Capacitors 593D Series, Specifications



Part Number Determination

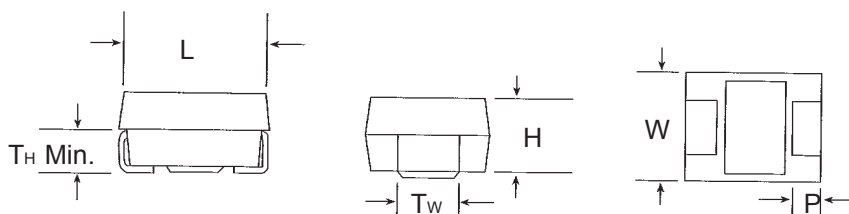
593D107X9010D2T						
593D	107	X9	010	D	2	T
TYPE	CAPACITANCE CODE	TOLERANCE	VOLTAGE CODE	CASE CODE	TERMINATION	PACKAGING
Std Tantalum	in pF 2 significant digits and 3rd representing the number of zeros to follow	X0=±20% X9=±10% X5=±5%** **special order	6R3=6.3V 010=10V 016=16V 020=20V 025=25V 035=35V 050=50V	C=6032 D=7343 E=7343H	2=Solderable coating standard 4=Gold Plated	T=7" reel W=13" reel *cathode nearest sprocket hole

Electrical Characteristics

Capacitance Range: 22µF to 330µF
Rated Voltage: 6.3V to 25V
Capacitance Tolerance: ±10%
Operating Temp Range: -55 to +85°C

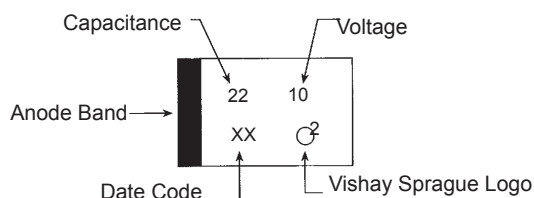


Package Dimensions (in/mm)

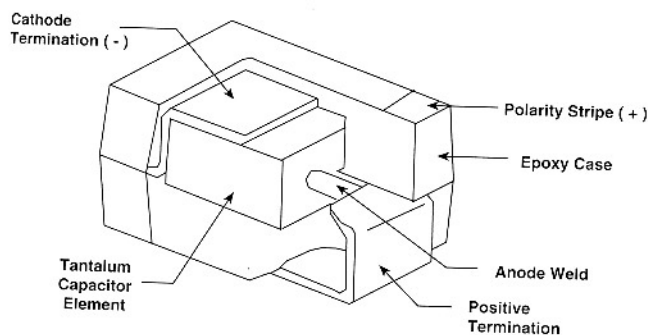


Case Code	EIA Size	L	W	H	P	T _W	T _H Min
C	6032	.236±.012 6.0±.30	.126±.012 3.2±.30	.098±.012 2.5±.30	.051±.012 1.3±.30	.087±.004 2.2±.10	.039 1.0
D	7343	.287±.012 7.3±.30	.170±.012 4.3±.30	.110±.012 2.8±.30	.051±.012 1.3±.30	.095±.004 2.5±.10	.039 1.0
E	7343H	.287±.012 7.3±.30	.170±.012 4.3±.30	.158±.012 4.0±.30	.051±.012 1.3±.30	.095±.004 2.5±.10	.039 1.0

Marking



Construction



Surface Mount Low ESR Tantalum Capacitors
593D Series, Specifications, Pricing, & Kits



Electrical Characteristics

		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 I _{rms} (Amps)
6.3V	593D107X96R3C2T	100	C	6.0	6	0.250	0.66
	593D107X96R3D2T	100	D	4.8	6	0.140	1.04
	593D157X96R3D2T	150	D	9.0	8	0.125	1.10
	593D337X96R3E2T	330	E	19.8	8	0.100	1.28
	593D336X9010C2T	33	C	2.6	4	0.300	0.61
10V	593D107X9010D2T	100	D	8.0	6	0.100	1.22
	593D227X9010E2T	220	E	22	8	0.100	1.28
	593D226X9016C2T	22	C	2.8	4	0.350	0.56
16V	593D336X9016C2T	33	C	4.2	4	0.300	0.58
	593D476X9016D2T	47	D	6.0	4	0.150	1.00
	593D686X9016D2T	68	D	10.9	6	0.150	1.00
	593D107X9016D2T	100	D	12.8	6	0.125	1.10
	593D476X9020D2T	47	D	7.5	4	0.200	0.87
20V	593D476X9020D2T	47	D	7.5	4	0.200	0.87
25V	593D226X9025D2T	22	D	4.4	4	0.200	0.8

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)

