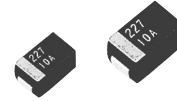




Surface Mount Low ESR Tantalum Capacitors

281 Series Specifications



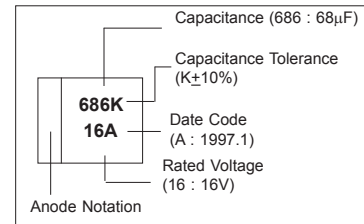
Part Number Determination

281M4001686KR					
281	M	4001	686	K	R
TYPE	FAILURE RATE	VOLTAGE	CAPACITANCE	TOLERANCE	PACKAGING
Ultra Low ESR Tantalum Capacitor	L=2%/1000h M=1%/1000h E=1%/1000h N=0.5%/1000h P=0.1%/1000h R=0.01%/1000h A=N/A	4001=4V 1002=10V 1602-16V 2002-20V 2502-25V 3502-35V 5002-50V	In pF 2 Significant digits + 1 multiplier 104=0.1uF 105=1uF 686=68uF	F=±1% G=±2% J=±5% K=±10% M=±20%	R=7" Reel / Anode band away from sprocket holes N=13" Reel / Anode band away from sprocket holes L=7" Reel / Anode band next to the sprocket holes P=13" Reel / Anode band next to the sprocket holes

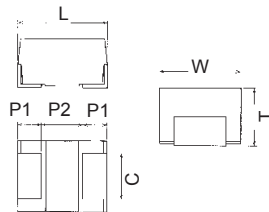
Electrical Characteristics

Part Number	Cap (uF)	Case Code	Max DC Leakage Current (uA)			Max Dissipation Factor				ESR (Ω) 100kHz
			20°C	85°C	125°C	-55°C	25°C	85°C	125°C	
281M3502685K	6.8	D3	2.4	24	30	0.08	0.06	0.06	0.06	0.350
281M3502106K	10	D3	3.5	35	44	0.08	0.06	0.06	0.06	0.300
281M5002106K	10	H								0.100
281M3502156K	15	H	5.3	55	66	0.08	0.06	0.06	0.06	0.225
281E2502226K	22	D3	5.5	55	69	0.08	0.06	0.06	0.06	0.200
281M2502226K	22	H	5.5	55	69	0.08	0.06	0.06	0.06	0.200
281M3502226K	22	H	7.7	77	96	0.08	0.06	0.06	0.06	0.250
281E2002336K	33	D3	6.6	66	83	0.08	0.06	0.06	0.08	0.200
281M2002336K	33	H	6.6	66	83	0.08	0.06	0.06	0.06	0.200
281M2502336K	33	H	8.3	83	103	0.08	0.06	0.06	0.06	0.225
281E1602476K	47	D3	7.5	75	94	0.08	0.06	0.06	0.06	0.150
281E1002686K	68	D3	6.8	68	85	0.08	0.06	0.06	0.08	0.175
281E2002686K	68	H	14	136	170	0.08	0.06	0.06	0.08	0.150
281E1002107K	100	D3	10	100	130	0.15	0.08	0.08	0.10	0.100
281E1602107K	100	H	16	160	200	0.15	0.08	0.08	0.10	0.100
281E1002157K	150	H	15	150	188	0.15	0.08	0.08	0.10	0.100
281E1002227K	220	H	22	220	275	0.15	0.08	0.08	0.10	0.100
281E6301337K	330	H	21	208	260	0.15	0.08	0.08	0.10	0.100
281E1002477K	470	H								0.100

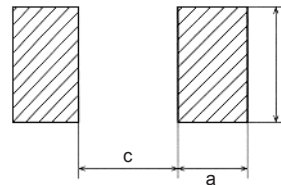
Markings



Package Dimensions (mm)



Land Pattern in(mm)



Case Code	EIA Code	L±0.2	W±0.2	T±0.2	P1±0.2	P2 Min	C±0.1
D3	7343	7.3	4.4	2.8	1.3	4.0	2.4
H	7343H	7.3	4.4	4.1	1.3	4.0	2.4

Case Code	a		b	c
	Flow	Reflow		
D3	0.205(5.2)	0.094(2.4)	0.106(2.7)	0.181(4.6)
H	0.205(5.2)	0.094(2.4)	0.106(2.7)	0.181(4.6)