

Jamicon Series : TE

Teapo Series : SY Low impedance · Long life Series

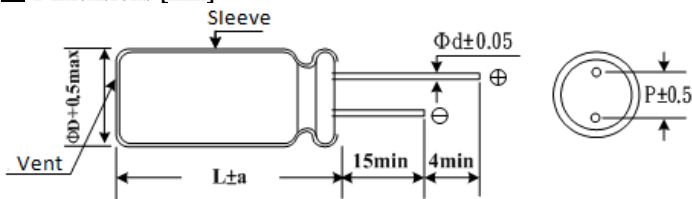
- Features: Low Impedance , high permissible ripple current at high frequency and long life than SC
- Recommended Applications :Used switching regulator applications in computers.
Especially for high frequency.
- Corresponding product to RoHS



SPECIFICATIONS

Item	Characteristics	
Category Temperature Range	-40 ~ +105°C	
Rated Voltage Range	6.3 ~ 100VDC	
Rated Capacitance Range	10 ~ 15000 μ F	
Capacitance Tolerance	\pm 20 % (120Hz , 20°C)	
Leakage Current (20°C)	I=0.01CV or 3 μ A whichever is greater. (After rated voltage applied for 2 minutes) I : Max. leakage current (μ A), C : Nominal capacitance (μ F), V : Rated voltage (V)	
Dissipation Factor(MAX) (tan δ) (120Hz ,20°C)	WV	6.3 10 16 25 35 50 63 100
	tan δ	0.22 0.19 0.16 0.14 0.12 0.10 0.09 0.08
When nominal capacitance is over 1000 μ F,tan δ shall be added 0.02 to the listed value with increase of every 1000 μ F.		
Low Temperature Stability Impedance Ratio (MAX)	Z(120Hz)	6.3 10 16 25 35 50 63 100
	Z-25°C / Z+20°C	4 3 2 2 2 2 2 2
	Z-40°C / Z+20°C	8 6 4 3 3 3 3 3
Endurance	After applying rated voltage with rated ripple current for3000~ 6000 hours at 105°C, the capacitors shall meet the following requirements.	
	Capacitance change	Within \pm 25% of initial value
	D.F. (tan δ)	Not more than 200% of specified value
	Leakage current	Not more than the specified value
	D Φ	5~6.3 Φ 8~10 Φ x12.5 10x15~12 Φ 12.5~18 Φ
	life(hours)	3000 hrs 4000 hrs 5000 hrs 6000 hrs
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for1,000 hours at 105°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to item 4.1 of JIS C 5101-4.	

Dimensions [mm]



Φ D	5	6.3	8	10	13	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Φ d	0.5	0.5	0.6	0.6	0.6	0.8	0.8
a	1.5	1.5	1.5	1.5	2.0	2.0	2.0

Multiplier for Ripple Current

Freq. (Hz)	120	1 K	10 K	100 K
10~ 180 μ F	0.40	0.75	0.90	1.00
220 ~ 560 μ F	0.50	0.85	0.94	1.00
680 ~1800 μ F	0.60	0.87	0.95	1.00
2200 ~ 3900 μ F	0.75	0.90	0.95	1.00
\geq 4700 μ F	0.85	0.95	0.98	1.00

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Rated Voltage (Surage Voltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	Ripple current (mA/rms105°C) (100KHz)	Impedance (Ω ,20°C) (100KHz)	Rated Voltage (Surage Voltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	Ripple current (mA/rms105°C) (100KHz)	Impedance (Ω ,20°C) (100KHz)
6.3V (8)	150	5x11	210	0.580	16V(20)	120	6.3x11	340	0.220
	330	6.3x11	340	0.220		220	6.3x11	469	0.185
	470	6.3x11	510	0.160		330	8x11	582	0.150
	680	8x11	640	0.130		470	8x11	640	0.130
	820	10x12.5	865	0.080		470	*8x15	840	0.087
	1000	8x15	840	0.087		470	8x20	950	0.078
	1200	8x20	1050	0.069		470	*10x12.5	865	0.080
	1200	10x16	1210	0.060		470	10x16	1210	0.060
	1500	8x20	1050	0.069		680	8x20	1050	0.069
	1500	*10x16	1210	0.060		680	10x16	1210	0.060
	1500	10x20	1400	0.046		1000	8x20	1050	0.069
	1800	13x16	1450	0.049		1000	*10x16	1210	0.060
	2200	*10x20	1400	0.046		1000	10x20	1400	0.046
	2200	10x25	1650	0.042		1000	13x16	1450	0.049
	2700	10x30	1910	0.031		1200	10x25	1650	0.042
	2700	16x16	1940	0.042		1200	10x30	1910	0.031
	3300	10x25	1650	0.042		1500	13x20	1900	0.035
	3300	13x20	1900	0.035		1500	16x16	1940	0.042
	3900	13x25	2230	0.027		2200	13x25	2230	0.027
	3900	18x16	2210	0.043		2200	18x16	2210	0.043
4700	13x30	2650	0.024	2700	13x30	2650	0.024		
5600	13x35	2880	0.020	2700	16x20	2530	0.027		
5600	16x20	2530	0.027	3300	16x20	2530	0.027		
6800	13x40	3350	0.017	3300	13x35	2880	0.020		
6800	16x25	2930	0.021	3900	13x40	3350	0.017		
6800	18x20	2860	0.026	3900	16x25	2930	0.021		
8200	16x32	3450	0.017	3900	18x20	2860	0.026		
10000	16x36	3610	0.015	4700	16x32	3450	0.017		
10000	18x25	3140	0.019	4700	18x25	3140	0.019		
12000	18x32	4170	0.015	5600	16x36	3610	0.015		
15000	18x36	4220	0.014	5600	18x32	4170	0.015		
10V (13)	100	5x11	210	0.580	25V (32)	47	5x11	210	0.580
	220	6.3x11	340	0.220		100	6.3x11	340	0.220
	470	8x11	640	0.130		150	8x11	640	0.160
	680	8x15	840	0.087		220	8x11	640	0.130
	820	10x12.5	865	0.080		330	8x15	840	0.087
	1000	8x20	1050	0.069		330	10x12.5	865	0.080
	1000	10x16	1210	0.060		470	8x20	1050	0.069
	1200	10x20	1400	0.046		470	*10x12.5	1050	0.070
	1500	10x25	1650	0.042		470	10x16	1210	0.060
	1500	13x16	1450	0.049		680	10x20	1400	0.046
	2200	10x30	1910	0.031		680	13x16	1450	0.049
	2200	13x20	1900	0.042		820	10x25	1650	0.042
	2200	16x16	1940	0.042		1000	10x30	1910	0.031
	2700	18x16	2210	0.043		1000	13x20	1900	0.035
	3300	10x30	1910	0.031		1000	16x16	1940	0.042
	3300	13x25	2230	0.027		1200	18x16	2210	0.043
	3900	13x30	2650	0.024		1500	*13x20	1900	0.035
	3900	16x20	2530	0.027		1500	13x25	2230	0.027
	4700	13x35	2880	0.020		1800	13x30	2650	0.024
	5600	13x40	3350	0.017		1800	16x20	2530	0.027
5600	16x25	2930	0.021	2200	13x35	2880	0.020		
5600	18x20	2860	0.026	2200	18x20	2860	0.026		
6800	16x32	3450	0.017	2700	13x40	3350	0.017		
6800	18x25	3140	0.019	2700	16x25	2930	0.021		
8200	16x36	3610	0.015	3300	16x32	3450	0.017		
8200	18x32	4170	0.015	3300	18x25	3140	0.019		
10000	16x40	4080	0.013	3900	18x32	4170	0.015		
10000	18x36	4220	0.014	4700	18x36	4220	0.014		
12000	18x40	4280	0.012	5600	18x40	4280	0.012		
16V (20)	100	5x11	210	0.580					
		6.3x11	250	0.230					

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Rated Voltage (Surage Voltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	Ripple current (mA/rms105°C) (100KHz)	Impedance (Ω ,20°C) (100KHz)	Rated Voltage (Surage Voltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	Ripple current (mA/rms105°C) (100KHz)	Impedance (Ω ,20°C) (100KHz)
35V (44)	33	5x11	210	0.580	50V (63)	1200	18x25	2740	0.026
	47	6.3x11	275	0.390		1500	16x36	3150	0.019
	56	6.3x11	340	0.220		1800	16x40	3710	0.016
	68	6.3x11	500	0.170			18x32	3635	0.021
	82	6.3x11	540	0.160		2200	18x36	3680	0.017
	100	8x11	580	0.150		2700	18x40	3800	0.014
	150	8x11	640	0.130	63V (79)	15	5x11	55	2.3
	220	*8x15	840	0.087		33	6.3x11	115	1.2
		10x12.5	865	0.080		56	8x12	232	0.63
	270	8x20	1050	0.069		82	8x15	300	0.45
		*10x16	1210	0.060			10x12.5	288	0.43
	330	10x20	1400	0.046		120	8x20	362	0.33
		10x20	1400	0.046			10x16	357	0.31
	470	13x16	1450	0.049		180	10x20	466	0.21
		10x25	1650	0.042			13x16	466	0.23
	680	10x30	1910	0.031		220	10x25	531	0.2
		13x20	1900	0.035		270	10x30	663	0.15
			16x16	1940			0.042	13x20	690
	820	13x20	1900	0.035		330	16x16	795	0.14
	1000	13x25	2230	0.027			390	13x25	784
		18x16	2210	0.043		470	18x16	920	0.12
	1200	13x30	2650	0.024			13x30	905	0.1
		16x20	2530	0.027		16x20	1040	0.091	
	1500	13x35	2880	0.020		560	13x35	1050	0.083
		13x40	3350	0.017	16x25		1250	0.073	
	1800	16x25	2930	0.021	680	13x40	1180	0.071	
		18x20	2860	0.026		18x20	1240	0.08	
	2200	16x32	3450	0.017	820	16x32	1570	0.054	
18x25		3140	0.019	18x25		1490	0.057		
2700	16x36	3610	0.015	1000	16x36	1790	0.045		
	18x32	4170	0.015		18x32	1630	0.047		
3300	16x40	4080	0.013	1200	16x40	2020	0.04		
	18x36	4220	0.014	100V (125)	22	6.3x11	200	0.85	
3900	18x40	4280	0.012		27	8x12	232	0.63	
50V (63)	10	5x11	135		1.200	39	8x15	300	0.45
	22	5x11	180		0.700	47	10x12.5	288	0.43
	33	6.3x11	245		0.490	56	8x20	362	0.33
	47	6.3x11	300		0.520	68	10x16	357	0.31
	56	6.3x11	320		0.300	82	10x20	466	0.21
	100	8x11	555		0.170		13x16	466	0.23
	120	8x15	730		0.120	100	10x25	531	0.2
	150	10x12.5	760		0.120	120	10x30	663	0.15
	180	8x20	910		0.091		13x20	690	0.16
	220	10x16	1050		0.084	150	16x16	795	0.14
	270	10x20	1220		0.060	180	13x25	784	0.12
		13x16	1260		0.061		18x16	920	0.12
	330	*10x20	1400		0.058	220	13x30	905	0.1
		10x25	1440		0.055		16x20	1040	0.091
	470	10x30	1690		0.043	270	13x35	1050	0.083
		13x20	1660		0.045		16x25	1250	0.073
		16x16	1690		0.055	330	13x40	1180	0.071
	560	13x25	1950		0.034		18x20	1240	0.08
		18x16	1930		0.054	390	16x32	1570	0.054
	680	13x30	2310		0.030		18x25	1490	0.057
		820	13x35	2510	0.025	470	16x36	1790	0.045
	16x20		2210	0.034	18x32		1630	0.047	
1000	13x40	2920	0.021	560	16x40	2020	0.04		
	16x25	2555	0.025	680	18x36	2020	0.04		
	18x20	2490	0.036	820	18x40	2330	0.036		
1200	16x32	3010	0.022						