

Jamicon Series : TJ

Teapo Series : SG High Ripple · Long life Series

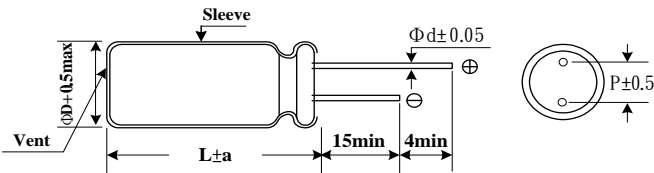
- Endurance: 105°C · 5000hours
- Recommended Applications : High ripple current for Electronic Ballast , Power Supply···etc
- Corresponding product to RoHS



SPECIFICATIONS

Item	Characteristics																																							
Category Temperature Range	-40~+105°C	-25~+105°C																																						
Rated Voltage Range	160 ~ 450VDC	500VDC																																						
Rated Capacitance Range	3.3 ~ 330 µF	4.7~ 150 µF																																						
Capacitance Tolerance	± 20 % (120Hz , 20°C)	± 20 % (120Hz , 20°C)																																						
Leakage Current (20°C)	I=0.06CV + 10(µ A) (After rated voltage applied for 2 minutes) I=0.04CV + 100(µ A) (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)	<table border="1"> <tr> <td>WV</td> <td>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>420~450</td> <td>500</td> </tr> <tr> <td>tan δ</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.20</td> <td>0.24</td> <td>0.24</td> <td>0.24</td> </tr> </table>								WV	160	200	250	350	400	420~450	500	tan δ	0.15	0.15	0.15	0.20	0.24	0.24	0.24																
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Low Temperature Stability Impedance Ratio (MAX)	<table border="1"> <tr> <td>WV</td> <td>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>420~450</td> <td>500</td> </tr> <tr> <td>Z (120Hz)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Z-25°C / Z+20°C</td> <td>3</td> <td>3</td> <td>3</td> <td>5</td> <td>5</td> <td>6</td> <td>6</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>6</td> <td>6</td> <td>6</td> <td>6</td> <td>6</td> <td>8</td> <td>—</td> </tr> </table>								WV	160	200	250	350	400	420~450	500	Z (120Hz)								Z-25°C / Z+20°C	3	3	3	5	5	6	6	Z-40°C / Z+20°C	6	6	6	6	6	8	—
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Endurance	After applying rated voltage with rated ripple current for 5000 hours at 105°C , the capacitors shall meet the following requirements. <table border="1"> <tr> <td>Capacitance change</td> <td>Within ± 20% of initial value</td> </tr> <tr> <td>D.F. (tan δ)</td> <td>Not more than 200% of specified value</td> </tr> <tr> <td>Leakage current</td> <td>initial specified value or less</td> </tr> </table>								Capacitance change	Within ± 20% of initial value	D.F. (tan δ)	Not more than 200% of specified value	Leakage current	initial specified value or less																										
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Shelf Life	After placed at 105°C without voltage applied for 1000 hours,the capacitors shall meet the same requirement as Endurance.																																							

Dimensions [mm]



ΦD	8.0	10	12.5	13	16	18	22
P	3.5	5.0	5.0	5.0	7.5	7.5	10.0
Φd	0.6	0.6	0.6	0.6	0.8	0.8	1.0
a	1.5(2.0)	1.5(2.0)	2.0(2.5)	2.0	2.0	2.0	2.0

Notes : ():L ≥ 30mm

Multiplier for Ripple Current

Freq. (Hz)	50,60	120	300	1K	10K~100K
160~450V	0.80	1.00	1.20	1.40	1.60
500V	0.75	1.00	1.20	1.35	1.50

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■STANDARD RATINGS

Rated Voltage (Surge Voltage) (V)	Cap (μF)	Case size ΦDxL(mm)	tan δ	Ripple current (mA/rms105°C) (120Hz)	Rated Voltage (Surge Voltage) (V)	Cap (μF)	Case size ΦDxL(mm)	tan δ	Ripple current (mA/rms105°C) (120Hz)		
160 (200)	22	10x20	0.15	160	350 (400)	68	16x32	0.2	400		
	33	10x20	0.15	210		18x25	0.2	380			
	47	13x20	0.15	260		82	12.5x50	0.2	450		
	68	13x25	0.15	360		100	12.5x55	0.2	500		
	200 (250)	68	16x20	0.15	430	400 (450)	100	18x32	0.2	530	
		100	16x25	0.15	475		4.7	※10x16	0.24	60	
		150	18x20	0.15	650		6.8	※10x16	0.24	72	
		220	16x32	0.15	750		10	※10x16	0.24	85	
			18x25	0.15	825		15	10x20	0.24	100	
		250 (300)	330	18x32	0.15		960	22	8x35	0.24	110
10			※10x16	0.15	80		27	8x40	0.24	140	
15			※10x16	0.15	100			13x20	0.24	145	
22			10x20	0.15	160			13x25	0.24	170	
350 (400)			33	※10x20	0.15		160	420 (470)	16x20	0.24	200
	47		13x20	0.15	210	27	8x45		0.24	165	
			13x25	0.15	260	10x35	0.24		165		
	68		16x20	0.15	430	33	8x50		0.24	190	
			16x25	0.15	475		10x40		0.24	260	
	100		18x20	0.15	650		16x25		0.24	260	
		18x25	0.15	825	18x20	0.24	280				
	400 (450)	220	18x32	0.15	960	450 (500)	10x45		0.24	300	
		10	※10x16	0.15	85		47		10x50	0.24	330
			10x20	0.15	100				12.5x40	0.24	350
22		8x30	0.15	130	16x25			0.24	310		
		※10x25	0.15	145	16x32		0.24	345			
450 (500)		27	8x32	0.15	150		500 (550)	18x25	0.24	360	
		33	8x35	0.15	170			56	12.5x45	0.24	365
			13x20	0.15	210				12.5x50	0.24	420
		39	8x42	0.15	200				68	16x30	0.24
			47	8x45	0.15			220		16x32	0.24
	47	13x25		0.15	270	18x36		0.24		420	
		56	16x20	0.15	275	82		12.5x55	0.24	435	
	68		10x42	0.15	300	100		18x32	0.24	465	
		10x45	0.15	330	18x40			0.24	545		
	500 (550)	68	16x25	0.15	380	150		18x40	0.24	600	
18x20			0.15	375	22x40		0.24	750			
82		10x50	0.15	390	550 (600)	15	8x35	0.24	105		
		100	12.5x42	0.15		440	22	8x40	0.24	135	
120			16x32	0.15		520	27	8x45	0.24	155	
		150	18x25	0.15		500		10x35	0.24	155	
150			12.5x45	0.15		490	33	8x50	0.24	185	
		220	12.5x50	0.15		560		10x40	0.24	185	
220			18x32	0.15		650	39	10x45	0.24	215	
		220	18x40	0.15		820		12.5x35	0.24	215	
550 (600)	10		10x20	0.20		100	47	10x50	0.24	245	
		8x35	0.20	120		12.5x40		0.24	245		
	22	8x40	0.20	150	56	12.5x45	0.24	290			
		13x20	0.20	160		68	12.5x50	0.24	335		
	27	8x45	0.20	170	82	12.5x55	0.24	385			
		33	8x50	0.20		200	3.3	10x20	0.24	60	
	33		13x25	0.20	230	4.7	13x20	0.24	80		
		39	16x20	0.20	250	6.8	※10x20	0.24	90		
	47		10x45	0.20	235	10	13x20	0.24	110		
		47	10x50	0.20	270		13x25	0.24	110		
47	16x25		0.20	300	12	8x35	0.24	110			
	56	18x20	0.20	315	15	8x40	0.24	130			
56		12.5x40	0.20	300		22	8x45	0.24	165		
	68	12.5x45	0.20	400	10x35		0.24	165			
					13x20	0.24	145				
					16x25	0.24	190				
					18x20	0.24	200				
					27	8x52	0.24	195			

※Down Size : 3000Hrs

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Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ D \times L(mm)	tan δ	Ripple current (mA/rms105°C) (120Hz)	Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ D \times L(mm)	tan δ	Ripple current (mA/rms105°C) (120Hz)
450 (500)	27	10x40	0.24	195	450 (500)	100	22x40	0.24	580
	33	10x45	0.24	270	500 (550)	4.7	10x20	0.24	70
		12.5x35	0.24	300		6.8	13x20	0.24	100
		16x25	0.24	275		10	12.5x25	0.24	130
		16x32	0.24	315		22	16x25	0.24	225
		18x25	0.24	320			18x20	0.24	220
	39	10x50	0.24	335		33	16x32	0.24	305
		12.5x40	0.24	350			18x25	0.24	295
	47	10x52	0.24	360		47	16x36	0.24	430
		12.5x45	0.24	365			18x32	0.24	435
		16x26	0.24	310		68	18x32	0.24	530
		18x32	0.24	340			18x36	0.24	555
	56	12.5x50	0.24	380		82	18x40	0.24	640
		12.5x55	0.24	410			22x35	0.24	675
	68	18x25	0.24	360		100	22x35	0.24	745
		18x32	0.24	395		120	22x40	0.24	865
100	22x40	0.24	580	150		22x45	0.24	1020	

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