

Jamicon Series : TJ

Teapo Series : SG High Ripple · Long life Series

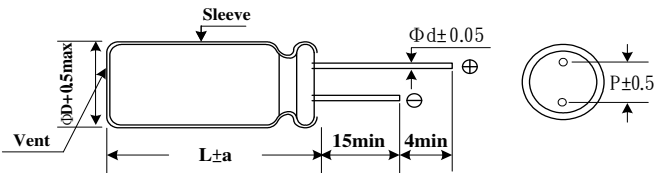
- Endurance: 105°C · 5000hours
- Recommended Applications : High ripple current for Electronic Ballast , Power Supply...etc
- Corresponding product to RoHS



**■ 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(µA) (After rated voltage applied for 2	I=0.04CV + 100(µA) (After rated voltage applied for 2 minutes)																																						
	I : Max. leakage current (µA), C : Nominal capacitance (µF), 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

Jamicon Series : TJ

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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		82	18x25	0.2	380	
	47	13x20	0.15	260		100	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)	4.7	※10x16	0.24	60
		100	16x25	0.15	475		6.8	※10x16	0.24	72
		150	18x20	0.15	465		10	※10x16	0.24	85
		150	16x32	0.15	650		10	10x20	0.24	100
		220	18x25	0.15	625		15	8x35	0.24	110
		220	16x32	0.15	750		22	8x40	0.24	140
330		18x25	0.15	725	13x20			0.24	145	
250 (300)		10	※10x16	0.15	80			13x25	0.24	170
		15	※10x16	0.15	100			16x20	0.24	200
		22	10x20	0.15	160		27	8x45	0.24	165
	33	※10x20	0.15	160	10x35	0.24		165		
	47	13x20	0.15	210	33	8x50	0.24	190		
	68	13x25	0.15	260		10x40	0.24	260		
	68	16x20	0.15	360		16x25	0.24	260		
	100	16x25	0.15	475		18x20	0.24	280		
	350 (400)	100	18x20	0.15	465	39	10x45	0.24	300	
		150	18x25	0.15	650	47	10x50	0.24	330	
220		18x32	0.15	780	12.5x40		0.24	350		
400 (450)		10	※10x16	0.15	85		16x25	0.24	310	
		10	10x20	0.15	100		16x32	0.24	345	
		22	8x30	0.15	130		18x25	0.24	360	
			※10x25	0.15	145		56	12.5x45	0.24	365
		27	8x32	0.15	150	12.5x50		0.24	420	
		33	8x35	0.15	170	16x30		0.24	340	
			13x20	0.15	210	16x32		0.24	350	
	39	8x42	0.15	200	18x36	0.24	420			
		8x45	0.15	220	82	12.5x55	0.24	435		
	47	13x25	0.15	270	100	18x32	0.24	465		
16x20		0.15	275	18x40		0.24	545			
420 (470)	56	10x42	0.15	300	150	18x40	0.24	600		
	68	10x45	0.15	330	150	22x40	0.24	750		
		16x25	0.15	380	450 (500)	15	8x35	0.24	105	
	18x20	0.15	375	22		8x40	0.24	135		
	82	10x50	0.15	390		27	8x45	0.24	155	
	100	12.5x42	0.15	440			10x35	0.24	155	
		16x32	0.15	520		33	8x50	0.24	185	
	18x25	0.15	500	10x40			0.24	185		
	120	12.5x45	0.15	490		39	10x45	0.24	215	
	150	12.5x50	0.15	560			12.5x35	0.24	215	
18x32		0.15	650	47		10x50	0.24	245		
220	18x40	0.15	820			12.5x40	0.24	245		
450 (500)	10	10x20	0.20	100	56	12.5x45	0.24	290		
	15	8x35	0.20	120	68	12.5x50	0.24	335		
	22	8x40	0.20	150	82	12.5x55	0.24	385		
		13x20	0.20	160	3.3	10x20	0.24	60		
	27	8x45	0.20	170	4.7	13x20	0.24	80		
	33	8x50	0.20	200	6.8	※10x20	0.24	90		
		13x25	0.20	230	10	13x20	0.24	110		
	16x20	0.20	250	13x25		0.24	110			
	39	10x45	0.20	235	12	8x35	0.24	110		
		10x50	0.20	270	15	8x40	0.24	130		
47	16x25	0.20	300	22		8x45	0.24	165		
	18x20	0.20	315		10x35	0.24	165			
56	12.5x40	0.20	300		13x20	0.24	145			
	12.5x45	0.20	400		16x25	0.24	190			

※Down Size : 3000Hrs

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■STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap ( $\mu$ F)	Case size $\Phi$ D $\times$ L(mm)	tan $\delta$	Ripple current (mA/rms105°C) (120Hz)	Rated Voltage (SurageVoltage) (V)	Cap ( $\mu$ F)	Case size $\Phi$ D $\times$ L(mm)	tan $\delta$	Ripple current (mA/rms105°C) (120Hz)	
450 (500)	27	10x40	0.24	195	450 (500)	100	22x40	0.24	580	
	33	10x45	10x45	0.24	270	500 (550)	4.7	10x20	0.24	70
			12.5x35	0.24	300		6.8	13x20	0.24	100
		16x25	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	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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