

Jamicon Series : TP

Teapo Series : TP Low impedance Series

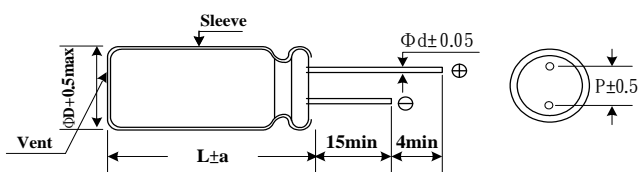
- Endurance: 105°C 6000~20000 hours
- Recommended Applications : Non-polar miniature type for used in reversing polarity DC voltage circuits
- Corresponding product to RoHS



■ SPECIFICATIONS

Item	Characteristics																			
Category Temperature Range	-55~ +105°C																			
Rated Voltage Range	10 ~35VDC																			
Rated Capacitance Range	1 ~4700 µF																			
Capacitance Tolerance	± 20 % (120Hz , 20°C)																			
Leakage Current (20°C)	I=0.01CV +3 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) (100KHz ,20°C)	<table border="1"> <tr> <td>WV</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <td>tan δ</td> <td>0.2</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> </tr> </table> <p>When nominal capacitance is over 1000uF , tan δ shall be added 0.02 to the listed value with increase of every 1000uF;L=7mm, tan δ shall be added 0.03</p>	WV	10	16	25	35	tan δ	0.2	0.16	0.14	0.12									
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Low Temperature Stability Impedance Ratio (MAX)	<table border="1"> <tr> <td rowspan="3">Z(120Hz)</td> <td colspan="4">WV</td> </tr> <tr> <td>10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <td>Z-25°C / Z+20°C</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-55°C / Z+20°C</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> </tr> </table>	Z(120Hz)	WV				10	16	25	35	Z-25°C / Z+20°C	3	2	2	2	Z-55°C / Z+20°C	4	4	4	4
Z(120Hz)	WV																			
	10		16	25	35															
	Z-25°C / Z+20°C	3	2	2	2															
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Endurance	After applying rated voltage for 6000 hours (≥12.5 φ 10000 , ≥16 φ 20000) hours at 105°C the capacitors shall meet the following requirements. <table border="1"> <tr> <td>Capacitance change</td> <td>Within ± 30% of initial value</td> </tr> <tr> <td>D.F. (tan δ)</td> <td>Not more than 300% of specified value</td> </tr> <tr> <td>Leakage current</td> <td>Not more than the specified value</td> </tr> </table>	Capacitance change	Within ± 30% of initial value	D.F. (tan δ)	Not more than 300% of specified value	Leakage current	Not more than the specified value													
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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	10	13	16	18
P	5.0	5.0	7.5	7.5
Φd	0.6	0.6	0.8	0.8
a	1.5	2.0	2.0	2.0

■ Multiplier for Ripple Current

Freq. (Hz)	120	1k	10k	100k
Factor	0.75	0.80	0.90	1.00

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■ STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ D \times L(mm)	tan δ	R.C (mA/rms105 $^{\circ}$ C) (100KHz)	Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ D \times L(mm)	tan δ	R.C (mA/rms105 $^{\circ}$ C) (100KHz)
10V (13)	330	10x16	0.20	510	25V (33)	470	16x25	0.14	1500
	470	10x20	0.20	680		1000	16x32	0.14	1640
	1000	12.5x25	0.20	1050	35V (44)	1	10x12.5	0.12	60
	2200	16x32	0.22	1740		2.2	10x12.5	0.12	90
	3300	18x36	0.24	2050		3.3	10x12.5	0.12	110
	4700	18x40	0.26	2290		4.7	10x12.5	0.12	140
16V (20)	220	10x16	0.16	520		10	10x12.5	0.12	300
	330	10x20	0.16	680		22	10x12.5	0.12	350
	470	12.5x20	0.16	1000		33	10x12.5	0.12	380
	1000	16x25	0.16	1410		47	10x12.5	0.12	420
	2200	18x36	0.18	2120		100	10x20	0.12	670
	3300	18x40	0.20	2160		220	12.5x25	0.12	1080
25V (33)	100	10x12.5	0.14	420		330	16x25	0.12	1330
	220	12.5x20	0.14	860		470	16x32	0.12	1690
	330	12.5x25	0.14	1170		1000	18x40	0.12	2170