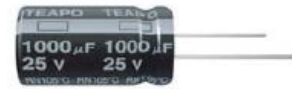


Jamicon Series : NK

Teapo Series : RN

Non-polar Standard Serie

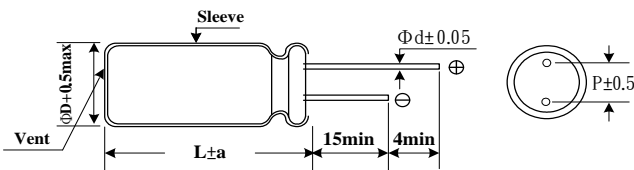


- Endurance: 85°C,2000hours, Non-polarized/Polarity reversing
- Recommended Applications :Small crossover network, Reversed polarity circuit, Coupling
- Corresponding product to RoHS

■ SPECIFICATIONS

Item	Characteristics	
Category Temperature Range	-40 ~ +85°C	-25~+85°C
Rated Voltage Range	6.3~ 100VDC	160~250VDC
Rated Capacitance Range	1 ~ 6800 μF	1~100 μF
Capacitance Tolerance	± 20 % (120Hz , 20°C)	
Leakage Current (20°C)	I ≤ 0.03CV+4 μA ; L=7mm,I ≤ 0.05CV or 10 μA whichever is greater. (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)	WV	6.3 10 16 25 35 50 63~100 160~250
	tan δ	0.24 0.2 0.17 0.15 0.15 0.15 0.12 0.20
When nominal capacitance is over 1000 μF,tan δ shall be added 0.02 to the listed value with increase of every 1000 μF.		
Low Temperature Stability Impedance Ratio (MAX)	WV	6.3 10 16 25 35 50 63~100 160~250
	Z(120Hz)	
	Z(-25°C) / Z(+20°C)	4 3 2 2 2 2 2 6
Z(-40°C) / Z(+20°C)	8 6 4 4 3 3 3 -	
Endurance	After applying rated voltage with rated ripple current for2000 (L≤7mm1000) hours at 85°C, the capacitors shall meet the following requirements.	
	Capacitance change	Within ± 20% of initial value
	D.F. (tan δ)	Not more than 200% of specified value
Leakage current	Not more than the specified value	
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for500 hours at 85°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]



ΦD	4	5	6.3	8	10	13	16	18
P	1.5	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Φd	0.45	0.5(0.45)	0.5(0.45)	0.6	0.6	0.6	0.8	0.8
a	1.0	1.5(1.0)	1.5(1.0)	1.5	1.5	2.0	2.0	2.0

() : L = 7

■ Multiplier for Ripple Current

Freq. (Hz)	50	120	1K	10K
WV(VDC)				
6.3 ~ 16V	0.8	1.0	1.1	1.2
25 ~ 35V	0.8	1.0	1.5	1.7
50 ~ 100V	0.8	1.0	1.6	1.9
160 ~ 250V	0.8	1.0	1.5	1.6

Jamicon Series : NK

Teapo Series : RN

■STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	$\tan \delta$	Ripple current (mA/rms85°C) (120Hz)	Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	$\tan \delta$	Ripple current (mA/rms85°C) (120Hz)	
6.3(8)	22	5x7	0.24	45	35 (44)	4.7	5x7	0.15	30	
	33	5x7	0.24	55			5x11	0.15	38	
		5x11	0.24	70		10	5x11	0.15	48	
	5x11	0.24	75	6.3x7			0.15	45		
	47	6.3x7	0.24	60		22	6.3x11	0.15	95	
		6.3x11	0.24	115		33	8x11	0.15	100	
	100	8x11	0.24	205		47	8x11	0.15	120	
	220	8x11	0.24	265		100	10x16	0.15	230	
	330	10x12.5	0.24	370		220	13x20	0.15	410	
	470	10x20	0.24	650		330	13x20	0.15	505	
	1000	13x25	0.26	1160		470	13x25	0.15	655	
	2200	16x25	0.28	1570		1000	16x32	0.15	1140	
	3300	16x32	0.30	2020		50 (63)	1	4x7	0.15	10
	4700	18x36	0.34	2600				5x11	0.15	18
6800	4x7	0.20	30	2.2	4x7		0.15	20		
10	5x7	0.20	50		5x11		0.15	26		
	5x11	0.20	65	3.3	5x7		0.15	25		
22	5x11	0.20	65		5x11		0.15	30		
	6.3x7	0.20	55	4.7	6.3x7		0.15	30		
33	5x11	0.20	75		5x11		0.15	30		
	6.3x7	0.20	65	10	6.3x11		0.15	45		
47	6.3x11	0.20	125		22		8x11	0.15	80	
	100	8x11	0.20	215	33		8x11	0.15	105	
220	10x16	0.20	345	47	8x15		0.15	140		
330	10x16	0.20	410	100	10x20		0.15	265		
470	13x20	0.20	720	220	13x25		0.15	480		
1000	16x25	0.22	1280	330	16x25	0.15	650			
2200	16x32	0.24	1690	470	16x32	0.15	840			
3300	18x36	0.26	2160	63 (79)	10	6.3x11	0.12	55		
4700	4x7	0.17	20		22	8x11	0.12	90		
4.7	5x7	0.17	35		33	10x12.5	0.12	135		
	5x11	0.17	47		47	10x16	0.12	180		
10	5x11	0.17	55		100	13x20	0.12	320		
	6.3x7	0.17	47		220	16x25	0.12	575		
22	5x11	0.17	70		330	16x32	0.12	750		
	6.3x7	0.17	60		470	18x36	0.12	965		
33	6.3x7	0.17	70		80 (100)	10	8x11	0.12	65	
	6.3x11	0.17	95			22	10x16	0.12	105	
47	8x11	0.17	160			33	10x16	0.12	160	
	10x12.5	0.17	275			47	10x20	0.12	215	
100	10x16	0.17	375			100	13x25	0.12	385	
220	10x20	0.17	485			220	16x32	0.12	690	
330	13x25	0.17	855	330	18x36	0.12	860			
470	16x32	0.19	1510	100 (125)	10	8x11	0.12	70		
1000	18x36	0.21	1980		22	10x16	0.12	135		
16 (20)	4.7	5x7	0.15		15	33	13x20	0.12	220	
		5x7	0.15		20	47	13x20	0.12	240	
10	5x11	0.15	40		100	100	16x25	0.12	425	
	6.3x7	0.15	35	220		18x36	0.12	720		
22	6.3x7	0.15	50	160 (200)	1	6.3x11	0.20	15		
	6.3x11	0.15	65		2.2	8x11	0.20	20		
33	6.3x7	0.15	65		3.3	10x12.5	0.20	30		
	6.3x11	0.15	80		4.7	10x12.5	0.20	35		
47	6.3x11	0.15	95		10	10x16	0.20	55		
	8x11	0.15	160		22	13x25	0.20	105		
100	10x16	0.15	305		33	16x25	0.20	165		
220	13x20	0.15	450		47	16x26	0.20	200		
330	13x20	0.15	540		100	18x36	0.20	360		
470	16x25	0.15	950		200 (250)	1	6.3x11	0.20	15	
1000	18x36	0.17	1730			2.2	8x11	0.20	20	
25 (32)	2.2	4x7	0.15			15	3.3	10x12.5	0.20	30
		5x7	0.15			20	4.7	10x16	0.20	40
3.3	5x11	0.15	40		35 (44)	3.3	5x7	0.15	20	
	6.3x7	0.15	35							
47	6.3x7	0.15	50							
	6.3x11	0.15	65							
100	6.3x7	0.15	65							
	6.3x11	0.15	80							
220	6.3x11	0.15	95							
	8x11	0.15	160							
330	10x16	0.15	305							
	13x20	0.15	450							
470	13x20	0.15	540							
	16x25	0.15	950							
1000	18x36	0.17	1730							
	2.2	4x7	0.15	15						
35 (44)	3.3	5x7	0.15	20						

Jamicon Series : NK

Teapo Series : RN

■ STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	$\tan \delta$	Ripple current (mA/rms85°C) (120Hz)
200 (250)	10	13x20	0.20	70
	22	13x25	0.20	120
	33	16x25	0.20	165
	47	16x32	0.20	220
250 (300)	1	8x11	0.20	15
	2.2	10x12.5	0.20	25

Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	$\tan \delta$	Ripple current (mA/rms85°C) (120Hz)
250 (300)	3.3	10x12.5	0.20	30
	4.7	10x16	0.20	40
	10	13x20	0.20	70
	22	16x25	0.20	135
	33	16x32	0.20	180
	47	16x36	0.20	230