

Jamicon Series : HF

Teapo Series : LK Long Life Series

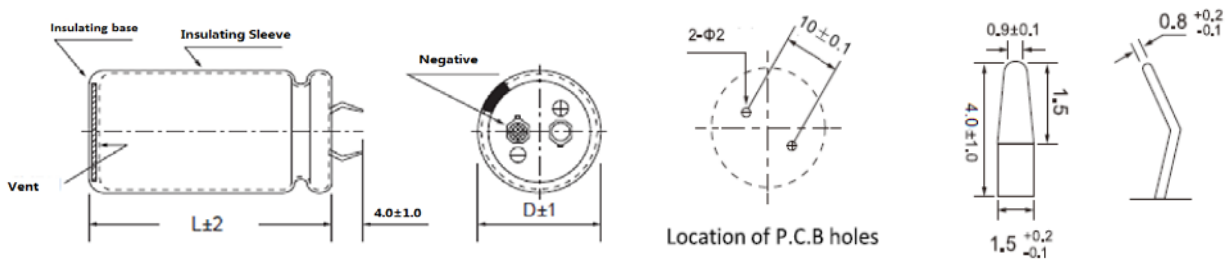


- Endurance: 105°C 7000hours
- Recommended Applications: Smoothing circuit, TV/Monitor,Adapter, SMPS
- Corresponding product to RoHS

**■ SPECIFICATIONS**

Item	Characteristics	
Category Temperature Range	-40 ~ +105°C	
Rated Voltage Range	160 ~ 450VDC	
Rated Capacitance Range	39 ~ 2200 µF	
Capacitance Tolerance	± 20 % (120Hz , 20°C)	
Leakage Current (20°C)	$I = \sqrt[3]{CV}$ . (After rated voltage applied for 5 minutes) I : Max. leakage current (µA), C : Nominal capacitance (µF), V : Rated voltage (V)	
Dissipation Factor(MAX) (tan δ) (120Hz ,20°C)	WV	160 180 200 250 315 350 400 450
	tan δ	0.15 0.15 0.15 0.15 0.20 0.20 0.20 0.20
Low Temperature Stability Impedance Ratio (MAX)	Measurement frequency : 120Hz	
	Rated voltage(V)	160~400 450
	Z-25°C / Z+20°C	4 8
	Z-40°C / Z+20°C	— —
Endurance	After applying rated voltage with rated Ripple current for 7000hrs at 105°C,when the capacitors are restored to 20°C, the capacitor shall meet the following requirement.	
	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 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]**



※When the code 11~13 of part number is S1G, the terminal length of standard capacitor is 4.0±1.0mm, and when it is S1A, the terminal length of standard capacitor is 5.8±1.0mm.

**■ Multiplier for Ripple Current**

Freq. (Hz)	60(50)	120	500	1K	≥10K
160~250WV	0.80	1.00	1.20	1.30	1.40
315~450WV	0.80	1.00	1.20	1.30	1.40

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■ STANDARD RATINGS

Rated Voltage (Surge Voltage) (V)	Cap ( $\mu$ F)	Case size $\Phi$ DxL(mm)	$\tan \delta$	Ripple current (A/rms105°C) (120Hz)	Rated Voltage (Surge Voltage) (V)	Cap ( $\mu$ F)	Case size $\Phi$ DxL(mm)	$\tan \delta$	Ripple current (A/rms105°C) (120Hz)		
160(200)	270	22x25	0.15	1.10	200(250)	470	25x35	0.15	1.46		
	330	22x25	0.15	1.20			30x25	0.15	1.49		
	390	22x30	22x45	0.15		1.30	560	22x45	0.15	1.65	
			25x25	0.15		1.30		25x35	0.15	1.59	
	470	22x35	30x30	0.15		1.40	680	30x30	0.15	1.66	
			25x30	0.15		1.40		22x50	0.15	1.82	
	560	22x40	25x40	0.15		1.60	820	25x40	0.15	1.86	
			25x30	0.15		1.56		30x30	0.15	1.83	
			30x25	0.15		1.54		25x45	0.15	2.04	
	680	22x45	30x35	0.15		1.90	1000	30x35	0.15	2.03	
			25x35	0.15		1.83		35x30	0.15	2.00	
			30x30	0.15		1.82		30x40	0.15	2.26	
	820	22x25	35x35	0.15		2.00	1200	35x35	0.15	2.34	
			25x40	0.15		2.02		30x45	0.15	2.46	
			30x30	0.15		2.00		35x40	0.15	2.70	
	1000	25x45	30x35	0.15		2.35	1500	35x50	0.15	3.15	
			30x35	0.15		2.35		180	22x30	0.15	0.90
			35x30	0.15		2.30			25x25	0.15	0.90
	1200	25x50	25x50	0.15		2.56	250(300)	220	22x30	0.15	1.00
			30x40	0.15		2.57			25x25	0.15	1.00
35x35		30x40	0.15	2.53	270	22x35		0.15	1.10		
		30x45	0.15	2.90		25x30		0.15	1.10		
		35x35	0.15	2.86		30x25		0.15	1.10		
1500	30x50	30x50	0.15	3.32	330	22x40	0.15	1.27			
		35x40	0.15	3.30		25x30	0.15	1.21			
2200	35x45	35x45	0.15	3.64	315(365)	30x25	0.15	1.20			
		220	22x25	0.15		1.00	30x25	0.15	1.20		
180(225)	270	22x25	0.15	1.10		250(300)	390	22x45	0.15	1.39	
			0.15	1.10				25x35	0.15	1.34	
	330	22x30	0.15	1.20			470	30x30	0.15	1.30	
			0.15	1.20				22x50	0.15	1.60	
	390	22x30	0.15	1.30			560	25x40	0.15	1.56	
			0.15	1.30				30x35	0.15	1.56	
	470	22x35	0.15	1.40				35x30	0.15	1.61	
			0.15	1.40			25x45	0.15	1.70		
			0.15	1.40			30x35	0.15	1.62		
	560	22x40	0.15	1.50			680	35x30	0.15	1.67	
			0.15	1.50				25x50	0.15	1.97	
			0.15	1.50				30x40	0.15	1.98	
	680	22x45	0.15	1.70			820	35x35	0.15	1.93	
			0.15	1.70				30x45	0.15	2.17	
			0.15	1.70				35x35	0.15	2.14	
	820	25x40	0.15	2.00			1000	30x50	0.15	2.61	
			0.15	2.00				35x40	0.15	2.50	
			0.15	2.00				35x45	0.15	2.99	
	1000	25x50	0.15	2.20	315(365)		82	22x25	0.20	0.64	
			0.15	2.20			100	22x30	0.20	0.69	
0.15			2.20	120		22x30	0.20	0.75			
0.15	2.20	25x25	0.20			0.75					
1200	30x40	0.15	2.40	150		22x35	0.20	0.82			
		0.15	2.40			25x30	0.20	0.82			
1500	30x50	0.15	2.70			180	30x25	0.20	0.82		
		0.15	2.70	22x40			0.20	0.90			
1800	35x45	0.15	2.90	220		25x30	0.20	0.90			
		0.15	2.90			30x25	0.20	0.90			
2200	35x50	0.150	3.10			22x45	0.20	1.05			
		0.15	1.00	25x35		0.20	1.05				
200(250)	270	22x30	0.15	1.10		270	30x30	0.20	1.05		
		25x25	0.15	1.10			25x40	0.20	1.20		
	330	22x30	0.15	1.20		330	30x35	0.20	1.20		
			0.15	1.20			35x30	0.20	1.20		
	390	22x35	0.15	1.30			25x50	0.20	1.35		
			0.15	1.31		30x40	0.20	1.35			
			0.15	1.30							
470	22x40	0.15	1.51								

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Rated Voltage (SurageVoltage) (V)	Cap ( $\mu$ F)	Case size $\Phi$ D $\times$ L(mm)	tan $\delta$	Ripple current (A/rms105°C) (120Hz)	Rated Voltage (SurageVoltage) (V)	Cap ( $\mu$ F)	Case size $\Phi$ D $\times$ L(mm)	tan $\delta$	Ripple current (A/rms105°C) (120Hz)	
315(365)	330	35x30	0.20	1.35	400(450)	120	30x25	0.20	0.80	
	390	30x40	0.20	1.50		150	22x45	0.20	0.94	
		35x35	0.20	1.50			25x35	0.20	0.91	
		470	30x45	0.20			1.60	30x30	0.20	0.95
	35x40		0.20	1.60		180	22x50	0.20	0.98	
	560	35x45	0.20	1.70			25x40	0.20	0.96	
680		35x50	0.20	1.90			30x30	0.20	1.09	
	350(400)	82	22x25	0.20			0.64	35x25	0.20	0.97
22x30			0.20	0.69			220	25x45	0.20	1.27
25x25			0.20	0.69				30x35	0.20	1.17
22x35			0.20	0.75		35x30	0.20	1.31		
120		25x30	0.20	0.75		270	30x40	0.20	1.37	
		22x40	0.20	0.85			35x35	0.20	1.35	
		150	25x30	0.20		0.89	330	30x45	0.20	1.60
			30x25	0.20		0.88		35x40	0.20	1.58
180		22x45	0.20	1.02		390	35x45	0.20	1.80	
		25x35	0.20	0.98			470	35x50	0.20	2.07
		30x30	0.20	1.03		450(500)		39	22x25	0.20
		220	22x50	0.20	1.09		47	22x30	0.20	0.46
25x40			0.20	1.06	56		22x35	0.20	0.54	
30x30			0.20	1.10			25x25	0.20	0.52	
270			25x45	0.20	1.24		68	22x40	0.20	0.58
		30x35	0.20	1.30	25x30			0.20	0.58	
		35x30	0.20	1.27	82		22x45	0.20	0.72	
330		30x40	0.20	1.44			25x35	0.20	0.69	
		35x35	0.20	1.44			30x25	0.20	0.68	
390		30x45	0.20	1.57	100		22x50	0.20	0.78	
		35x35	0.20	1.63			25x40	0.20	0.74	
		470	30x50	0.20			1.90	30x30	0.20	0.75
			35x40	0.20	1.89		120	25x45	0.20	0.86
560		35x50	0.20	2.15	30x30			0.20	0.85	
		400(450)	56	22x25	0.20		0.51	150	25x50	0.20
22x30				0.20	0.57		30x40		0.20	1.02
25x25				0.20	0.57		35x30		0.20	1.00
82			22x30	0.20	0.66		180	30x45	0.20	1.18
	25x25		0.20	0.64	35x35	0.20		1.29		
100	22x35		0.20	0.69	220	30x50	0.20	1.24		
	25x30		0.20	0.69		35x40	0.20	1.24		
120	22x40		0.20	0.80	270	35x45	0.20	1.40		
	25x30		0.20	0.80		330	35x50	0.20	1.60	