CapXon

FH series

FH Series 105℃ high ripple current at frequency range

Feature

◆New innovative electrolyte is employed to minimize ESR
◆Long life 4000 to 10000 hours at 105℃
◆Non solvent proof type
◆6.3 to 100VDC newly type
◆RoHS compliance.

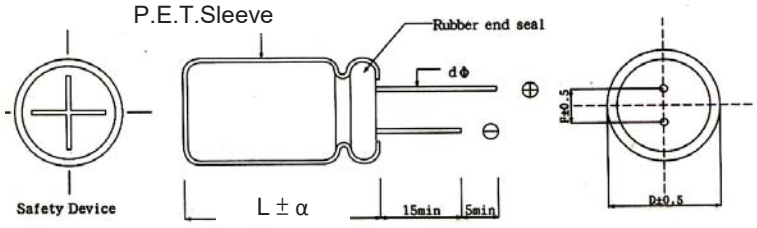
Specificatio

Item	Performance Characteristics
Operating Temperature	-40 to +105℃
Rated Voltage Range	6.3~100V.DC
capacitance range	6.8~18000uF
Capacitance Tolerance	±20% (120Hz, +20℃)
Leakage Current (+20℃,max.)	I≦0.01CV or 3μA whichever is greater, with rated working voltage applied(After 2 minutes). I= Leakage Current(μA) C= Rated Capacitance V= Rated voltage(V)
Dissipation Factor (tanδ，at 20℃，120Hz)	working voltage(VDC) 6.3 10 16 25 35 50 63 100 D.F.(%)max 22 19 16 14 12 10 9 8 For capacitance ＞1000μF,add 2% per another 1000μF
Low Temperature Characteristics (at 120Hz)	Impedance ratio max Working Voltage(VDC) 6.3 10 16 25 35 50 63 100 Z-25℃ / Z+20℃ 4 3 2 2 2 2 2 2 Z-40℃ / Z+20℃ 8 6 4 3 3 3 3 3
Endurance	Test conditions Duration time: size / φD≦6.3 / ΦD=8,10 / φD≧13 voltage 6.3~10WV / 4000hrs / 6000hrs / 8000hrs voltage 16~100WV / 5000hrs / 7000hrs / 10000hrs Ambient temperature :+105℃ Applied voltage :Rated DC working voltage After test requirement at +20℃ Capacitance change : within±25% of the initial measured value Dissipation factor :≦ 200% of the initial specified value Leakage current :≦ The initial specified value
Shelf Life	Test conditions Duration time :1000Hrs Ambient temperature :+105℃ Applied voltage :None After test requirement at +20℃:Same limits as Endurance. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.

Multiplier for Ripple Current vs.

CAP(μ	50(60)	120	400	1K	10K	100K
CAP≦10	0.47	0.59	0.76	0.85	0.97	1.00
10＜CAP≦100	0.52	0.62	0.80	0.89	0.97	1.00
100＜CAP≦1000	0.58	0.72	0.84	0.90	0.98	1.00
1000＜CAP	0.63	0.78	0.87	0.91	0.98	1.00

Diagram of Dimensions:(unit:mm)



Dφ	5	6.3	8		10	13	16	18
F	2	2.5	3.5		5.0		7.5	
dφ	0.5		L＜20	L≧20	0.6		0.8	
			0.5	0.6				

α	D < 18	D=18		D > 18
		L < 35.5	L≧35.5	
	1.5	1.5	2.0	2.0

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Case Size

WV (Vdc)	Cap (uF)	Size mm	Rated Ripple current (Arms/105℃ /100KHz)	Max ESR(Ω) at 20℃ /100kHz
6.3	150	5×11	220	0.550
6.3	220	6.3×11	300	0.260
6.3	330	6.3×11	350	0.210
6.3	470	8×11.5	440	0.140
6.3	680	8×11.5	650	0.130
6.3	820	10×12.5	870	0.090
6.3	1000	8×16	850	0.080
6.3	1200	8×20	1060	0.075
6.3	1200	10×16	1220	0.064
6.3	1500	10×20	1410	0.050
6.3	1800	13×16	1460	0.049
6.3	2200	10×25	1660	0.046
6.3	2700	16×16	1950	0.042
6.3	3300	13×20	1910	0.038
6.3	3900	13×25	2240	0.029
6.3	3900	18×16	2220	0.040
6.3	4700	13×30	2660	0.027
6.3	5600	13×35	2890	0.024
6.3	5600	16×21	2540	0.027
6.3	6800	13×40	3360	0.017
6.3	6800	16×25	2940	0.021
6.3	6800	18×21	2870	0.026
6.3	8200	16×31.5	3460	0.017
6.3	10000	16×35.5	3620	0.015
6.3	10000	18×25	3150	0.019
6.3	12000	16×41	4090	0.013
6.3	12000	18×31.5	4180	0.015
6.3	15000	18×35.5	4230	0.014
6.3	18000	18×41	4290	0.012
10	100	5×11	220	0.580
10	220	6.3×11	350	0.230
10	330	6.3×11	450	0.220
10	470	8×11.5	650	0.130
10	680	8×16	850	0.096
10	680	10×12.5	870	0.085
10	820	10×16	950	0.075
10	1000	8×20	1060	0.072
10	1000	10×16	1220	0.064
10	1200	10×20	1410	0.045
10	1500	10×25	1560	0.043
10	1500	13×16	1460	0.049
10	2200	10×30	1920	0.030
10	2200	13×20	1910	0.035
10	2200	16×16	1950	0.042
10	2700	18×16	2220	0.043
10	3300	13×25	2240	0.029
10	3900	13×30	2660	0.025
10	3900	16×21	2540	0.027
10	4700	13×35	2890	0.020
10	5600	13×40	3360	0.017
10	5600	16×25	2940	0.021
10	5600	18×21	2870	0.026
10	6800	16×31.5	3460	0.017
10	6800	18×25	3150	0.019
10	8200	16×35.5	3620	0.015
10	8200	18×31.5	4180	0.015
10	10000	16×41	4090	0.013
10	10000	18×35.5	4230	0.014
10	12000	18×41	4290	0.012
16	56	5×11	220	0.560

WV (Vdc)	Cap (uF)	Size mm	Rated Ripple current (Arms/105℃ /100KHz)	Max ESR(Ω) at 20℃ /100kHz
16	100	6.3×11	300	0.220
16	120	6.3×11	350	0.215
16	220	8×11.5	500	0.180
16	330	8×11.5	650	0.140
16	470	8×11.5	740	0.100
16	470	8×16	850	0.095
16	470	10×12.5	870	0.085
16	680	8×20	1060	0.080
16	680	10×16	1220	0.060
16	820	10×20	1300	0.052
16	1000	10×20	1410	0.046
16	1000	13×16	1460	0.050
16	1200	10×25	1660	0.044
16	1500	10×25	1770	0.036
16	1500	10×30	1920	0.031
16	1500	13×20	1910	0.037
16	1500	16×16	1950	0.042
16	1800	10×25	1800	0.036
16	1800	13×25	2080	0.030
16	2200	13×25	2240	0.026
16	2200	18×16	2220	0.043
16	2700	13×30	2660	0.023
16	2700	16×21	2540	0.027
16	3300	13×35	2890	0.022
16	3900	13×40	3360	0.017
16	3900	16×25	2940	0.021
16	3900	18×21	2870	0.026
16	4700	16×31.5	3460	0.017
16	4700	18×25	3150	0.020
16	5600	16×35.5	3620	0.015
16	5600	18×31.5	4180	0.015
16	6800	16×41	4090	0.013
16	8200	18×35.5	4230	0.014
16	10000	18×41	4290	0.012
25	47	5×11	220	0.560
25	56	5×11	260	0.560
25	100	6.3×11	350	0.250
25	220	8×11.5	650	0.150
25	330	8×16	850	0.092
25	330	10×12.5	870	0.082
25	470	8×20	1060	0.074
25	470	10×12.5	1100	0.074
25	470	10×16	1220	0.068
25	680	10×20	1410	0.050
25	680	13×16	1460	0.049
25	820	10×25	1660	0.041
25	1000	10×30	1920	0.032
25	1000	13×20	1910	0.036
25	1000	16×16	1950	0.042
25	1200	18×16	2220	0.043
25	1500	13×25	2240	0.028
25	1800	13×30	2660	0.024
25	1800	16×21	2540	0.027
25	2200	13×30	2695	0.025
25	2200	13×35	2890	0.023
25	2200	18×21	2870	0.026
25	2700	13×40	3360	0.017
25	2700	16×25	2940	0.022
25	3300	16×31.5	3460	0.017
25	3300	18×25	3150	0.019

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WV (Vdc)	Cap (uF)	Size mm	Rated Ripple current (Arms/105℃ /100KHz)	Max ESR(Ω) at 20℃ /100kHz
25	3900	16×35.5	3620	0.015
25	3900	18×31.5	4180	0.015
25	4700	16×41	4090	0.013
25	4700	18×35.5	4230	0.014
25	5600	18×41	4290	0.012
35	33	5×11	230	0.550
35	47	5×11	300	0.450
35	56	6.3×11	360	0.210
35	100	6.3×11	480	0.180
35	150	8×11.5	680	0.140
35	220	8×11.5	870	0.095
35	220	8×16	1000	0.090
35	220	10×12.5	1060	0.080
35	270	8×20	1180	0.070
35	330	10×16	1380	0.062
35	470	10×20	1800	0.048
35	470	13×16	1560	0.049
35	560	10×25	1900	0.042
35	680	10×30	2000	0.035
35	680	13×20	2100	0.034
35	680	16×16	2050	0.042
35	1000	13×20	2180	0.038
35	1000	13×25	2400	0.028
35	1000	18×16	2220	0.043
35	1200	13×30	2800	0.024
35	1200	16×21	2800	0.028
35	1500	13×35	3000	0.022
35	1800	13×40	3360	0.017
35	1800	16×25	2940	0.020
35	1800	18×21	2870	0.026
35	2200	16×31.5	3460	0.017
35	2200	18×21	2930	0.025
35	2200	18×25	3150	0.019
35	2700	16×35.5	3620	0.018
35	2700	18×31.5	4180	0.016
35	3300	16×41	4090	0.013
35	3300	18×35.5	4230	0.014
35	3900	18×41	4300	0.012
50	22	5×11	220	0.650
50	47	6.3×11	270	0.370
50	56	6.3×11	300	0.290
50	100	8×11.5	680	0.160
50	120	8×16	760	0.120
50	150	10×12.5	800	0.120
50	180	8×20	1000	0.090
50	220	10×16	1300	0.082
50	270	10×20	1350	0.060
50	270	13×16	1270	0.061
50	330	10×25	1600	0.057
50	470	10×30	1800	0.048
50	470	13×20	1740	0.045
50	470	16×16	1710	0.055
50	560	13×25	1960	0.042
50	560	18×16	1940	0.054
50	680	13×30	2320	0.030
50	820	13×35	2520	0.025
50	820	16×21	2220	0.034
50	1000	13×35	2650	0.024
50	1000	13×40	2930	0.021
50	1000	16×25	2565	0.025

WV (Vdc)	Cap (uF)	Size mm	Rated Ripple current (Arms/105℃ /100KHz)	Max ESR(Ω) at 20℃ /100kHz
50	1000	18×21	2500	0.036
50	1200	16×31.5	3020	0.030
50	1200	18×25	2750	0.026
50	1500	16×35.5	3160	0.019
50	1800	16×41	3720	0.016
50	1800	18×31.5	3645	0.021
50	2200	18×35.5	3690	0.017
50	2700	18×41	3810	0.014
50	3300	18×41	3810	0.014
63	15	5×11	65	1.800
63	33	6.3×11	260	1.200
63	47	8×11.5	360	0.660
63	56	8×11.5	380	0.600
63	82	8×16	460	0.440
63	82	10×12.5	500	0.430
63	100	10×12.5	640	0.340
63	120	8×20	700	0.320
63	120	10×16	760	0.300
63	180	10×20	880	0.190
63	180	13×16	800	0.180
63	220	10×20	995	0.188
63	220	10×25	1100	0.185
63	270	10×30	1200	0.120
63	270	13×20	1200	0.160
63	270	16×16	1200	0.110
63	330	13×25	1600	0.120
63	390	18×16	1610	0.096
63	470	13×30	1800	0.100
63	470	16×21	1500	0.077
63	560	13×35	2000	0.070
63	560	16×25	2000	0.073
63	680	13×40	2200	0.070
63	680	18×21	1600	0.072
63	820	16×31.5	2400	0.054
63	820	18×25	1800	0.052
63	1000	16×35.5	2500	0.048
63	1000	18*25	2290	0.052
63	1000	18×31.5	2800	0.047
63	1200	16×41	2920	0.040
63	1200	18×31.5	2850	0.045
63	1200	18×35.5	3000	0.039
63	1500	18×41	3200	0.036
100	6.8	5×11	65	1.800
100	15	6.3×11	130	1.000
100	27	8×11.5	300	0.610
100	39	8×16	340	0.360
100	47	10×12.5	400	0.420
100	56	8×20	410	0.260
100	68	10×16	460	0.300
100	82	10×20	600	0.210
100	82	13×16	540	0.180
100	100	10×25	800	0.200
100	120	10×30	830	0.120
100	120	13×20	900	0.160
100	150	13×20	1000	0.110
100	150	16×16	1000	0.110
100	180	13×25	1010	0.096
100	180	18×16	1180	0.096
100	220	13×30	1210	0.080
100	220	16×21	1140	0.077

Case Size

WV (Vdc)	Cap (uF)	Size mm	Rated Ripple current (Arms/105℃ /100KHz)	Max ESR(Ω) at 20℃ /100kHz
100	270	13×35	1450	0.070
100	270	16×25	1480	0.073
100	330	13×40	1600	0.071
100	330	18×21	1400	0.072
100	390	16×31.5	1700	0.055
100	390	18×25	1740	0.054
100	470	16×35.5	1910	0.047
100	470	18×31.5	1730	0.047
100	560	16×41	2140	0.036
100	680	18×35.5	2000	0.042
100	820	18×41	2480	0.040
100	1000	18×41	2580	0.038

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