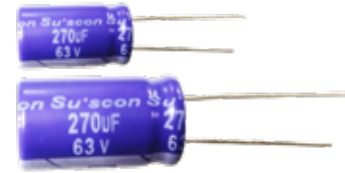


HFN series

sales016@heyuecap.com

- Anhydrous product.
- Low impedance at High frequency range.
- High ripple current resistance, 105°C 4000 hours~8000 hours. long life.
- RoHS Compliance
- 無水系產品
- 高頻低阻抗。
- 耐高紋波電流、105°C 4000小時~8000小時長壽命產品。



SPECIFICATIONS

Items 項目	Characteristics 特性								
Capacitance Tolerance 靜電容量誤差	± 20%(120Hz,20°C)								
Operating Temperature Range 適用溫度範圍	-55 ~ +105°C					-40 ~ +105°C			
Rated Voltage Range 額定電壓範圍	6.3 ~ 50VDC					63 ~ 100VDC			
Leakage Current 洩漏電流	I ≤ 0.01CV or 3 (μA) which is greater.(After 2 minutes application of DC rated voltage, at 20 °C)								
Dissipation Factor 散逸因素(tan δ)	Rated Voltage(V)	6.3	10	16	25	35	50	63~80	100
	tan δ(Max)	0.24	0.20	0.16	0.15	0.12	0.10	0.09	0.08
	When nominal capacitance over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.								
Low Temperature Stability 低溫特性 Impedance Ratio(Max) 阻抗比率(最大值)	Measurement Frequency: 120Hz.								
	Rated Voltage(V)	6.3	10	16	25	35	50	63	100
	Z(-25°C)/Z(20°C)	4	3	2	2	2	2	2	2
	Z(-40°C)/Z(20°C)	-	-	-	-	-	-	3	3
	Z(-55°C)/Z(20°C)	8	6	4	3	3	3	-	-
Load Life 負荷壽命	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for varied hours according to varied Φ [please refer to below sheet] at 105°C								
	Time	Φ	5	6.3	8	10	13	16	18
		hours	4000	4000	5000	6000	7000	8000	8000
	Capacitance Change		within ±25% of Initial Value						
	tan δ		200% or less of Initial Specified Value						
Leakage Current		Initial Specified Value or less							
Shelf Life 放置壽命	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000hours 105°C without voltage applied. Before the measurement. The Capacitance shall be preconditioned by applying voltage according to them 4.1 of JIS C 5101-4.								
	Capacitance Change		within ±25% of Initial Value						
	tan δ		200% or less of Initial Specified Value						
	Leakage Current		Initial Specified Value or less						
Standards 參照標準	AEC-Q200、IEC 60384-4(JIS C5101-4)								

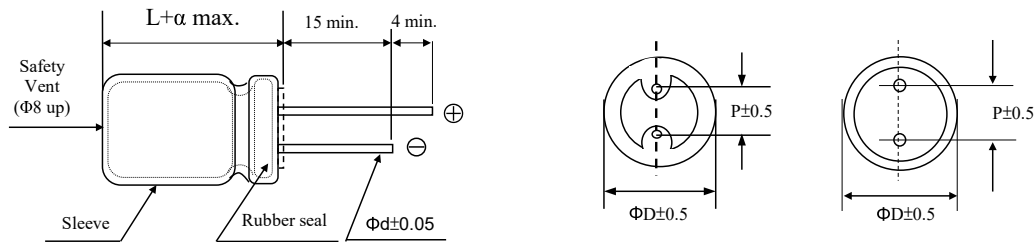
Frequency Coefficient of Permissible Ripple Current

Capacitance (μF)	Frequency (Hz)			
	120	1K	10K	100K
5.6 ~ 180	0.40	0.75	0.90	1.00
220 ~ 560	0.50	0.85	0.94	1.00
680 ~ 1800	0.60	0.87	0.95	1.00
2200 ~ 3900	0.75	0.90	0.95	1.00
4700 ~ 18000	0.85	0.95	0.98	1.00

HFN series

sales016@heyuecap.com

DIMENSIONS(mm)



ΦD	5	6.3	8	10	12.5	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Φd	0.5	0.5	0.5	0.6	0.6	0.8	0.8

α	(L < 20) 1.5
	(L ≥ 20) 2.0

STANDARD RATINGS

DxL(mm), R.C.(mA rms) at 105°C 100kHz , IMP (Ω max) at 20°C,-10°C 100kHz.

Cap (μF)	V	6.3				10				16				25			
		D x L	IMP		R.C.	D x L	IMP		R.C.	D x L	IMP		R.C.	D x L	IMP		R.C.
			20°C	-10°C			20°C	-10°C			20°C	-10°C			20°C	-10°C	
47										5x11	0.550	1.100	170	5x11	0.600	1.210	175
100						5x11	0.550	1.10	170	6.3x11	0.290	0.550	295	6.3x11	0.310	0.610	295
150		5x11	0.550	1.100	170									6.3x15	0.220	0.430	420
220						6.3x11	0.270	0.550	295	6.3x15	0.190	0.400	410	8x11.5	0.150	0.290	650
330		6.3x11	0.270	0.550	295	6.3x15	0.200	0.390	400	8x11.5	0.140	0.260	660	8x16	0.110	0.220	750
390														10x12.5	0.110	0.220	770
470		6.3x15	0.200	0.400	400	8x11.5	0.140	0.260	650	8x20	0.100	0.200	740	8x20	0.096	0.180	820
560										10x12.5	0.100	0.200	770	10x16	0.085	0.170	1,060
680		8x11.5	0.140	0.280	655	8x16	0.100	0.200	830	8x20	0.091	0.180	830				
820		10x12.5	0.100	0.200	860	10x12.5	0.100	0.200	860	10x16	0.077	0.150	1,070	10x20	0.067	0.130	1,230
1000		8x16	0.100	0.210	830	8x20	0.091	0.170	1,010					10x25	0.057	0.110	1,450
1200		10x16	0.077	0.150	1,250	10x16	0.077	0.150	1,250	10x20	0.061	0.120	1,270	10x30	0.048	0.092	1,720
1500		10x20	0.059	0.120	1,420	10x20	0.061	0.120	1,420	10x25	0.053	0.100	1,450	12.5x20	0.048	0.097	1,670
1800						10x25	0.052	0.100	1,640	10x30	0.043	0.085	1,930	12.5x25	0.040	0.076	1,960
2200		10x25	0.052	0.100	1,640	10x30	0.043	0.085	1,930	12.5x20	0.045	0.088	1,650	12.5x30	0.033	0.064	2,320
2700		10x30	0.045	0.086	1,930	12.5x20	0.045	0.088	1,650	12.5x25	0.036	0.069	1,970	12.5x35	0.025	0.051	2,520
3300		12.5x20	0.044	0.086	1,650	12.5x25	0.036	0.069	1,960	12.5x30	0.030	0.058	2,330	12.5x40	0.020	0.041	2,860
3900		12.5x25	0.036	0.069	1,960	12.5x30	0.030	0.058	2,320	12.5x35	0.028	0.051	2,520	16x26	0.025	0.051	2,570
4700		12.5x30	0.030	0.058	2,320	12.5x35	0.025	0.052	2,520	16x31.5	0.023	0.045	3,020	16x36	0.020	0.040	3,140
5600		12.5x35	0.026	0.051	2,520	16x26	0.020	0.052	2,570	16x36	0.022	0.041	3,160	18x25	0.023	0.047	2,750
6300						16x31.5	0.022	0.041	2,880	16x40	0.019	0.036	3,720	18x31.5	0.021	0.042	3,340
6800		12.5x40	0.022	0.041	2,880	16x40	0.020	0.036	3,720	18x25	0.025	0.045	3,020	18x35.5	0.018	0.037	3,690
8200		16x26	0.028	0.051	2,570	18x25	0.022	0.041	2,750	18x36	0.022	0.041	3,160	18x40	0.018	0.036	3,810
10000		16x31.5	0.024	0.045	3,020	18x31.5	0.022	0.043	3,340	18x36	0.022	0.041	3,160				
12000		18x25	0.025	0.047	2,750	18x35.5	0.021	0.037	3,670	18x40	0.020	0.035	3,810				
15000		18x35.5	0.021	0.037	3,670	18x40	0.020	0.036	3,810								
18000		18x40	0.020	0.036	3,810												

HFN

HFN series

sales016@heyuecap.com

STANDARD RATINGS

DxL(mm) ; R.C.(mA rms) at 105°C 100kHz ; IMP(Ω max) at 20°C, -10°C 100kHz.

Cap (μF)	V	35				50				63				100			
	Item	D x L	IMP		R.C.	D x L	IMP		R.C.	D x L	IMP		R.C.	D x L	IMP		R.C.
			20°C	-10°C			20°C	-10°C			20°C	-10°C			20°C	-10°C	
5.6														5x11	2.640	6.860	90
12										5x11	2.970	6.600	145	6.3x11	1.580	4.090	120
18														6.3x15	0.820	2.380	200
22						5x11	1.490	2.970	165	6.3x11	1.650	3.300	250	8x11.5	0.720	2.110	250
27														10x12.5	0.640	1.850	350
33	5x11	0.850	1.740	185										8x16	0.480	1.300	320
														10x16	0.450	1.200	460
39										6.3x15	0.990	2.310	340	8x20	0.370	0.990	450
47						6.3x11	0.720	1.490	270								
56	6.3x11	0.300	0.820	300										10x20	0.360	0.940	580
68						6.3x15	0.520	1.060	370	8x11.5	0.570	1.230	410	10x25	0.270	0.700	760
100	6.3x15	0.280	0.720	410	8x11.5	0.350	0.710	490	8x16	0.430	1.080	540	10x30	0.210	0.570	910	
									10x12.5	0.420	0.850	550	12.5x20	0.210	0.570	840	
120					8x16	0.270	0.530	640	10x16	0.320	0.630	620	12.5x25	0.160	0.430	1,010	
					10x12.5	0.250	0.530	630									
150	8x11.5	0.150	0.280	625					8x20	0.350	0.850	690					
180					8x20	0.200	0.400	740	10x20	0.240	0.480	890	12.5x30	0.130	0.360	1,220	
					10x16	0.220	0.420	860									
220	8x16	0.110	0.220	740	10x20	0.150	0.300	1,060	10x25	0.220	0.430	1,060	12.5x35	0.120	0.330	1,420	
	10x12.5	0.110	0.210	770									16x26	0.110	0.310	1,400	
270	8x20	0.099	0.200	820									12.5x40	0.083	0.240	1,600	
330	10x16	0.085	0.170	1,060	10x25	0.130	0.250	1,260	10x30	0.150	0.300	1,310	16x31.5	0.079	0.240	1,740	
									12.5x20	0.140	0.290	1,290	18x25	0.096	0.270	1,610	
390					10x30	0.095	0.19	1,520	12.5x25	0.120	0.240	1,730	16x36	0.074	0.200	1,950	
					12.5x20	0.100	0.200	1,490					18x31.5	0.082	0.230	1,820	
470	10x20	0.067	0.130	1,230					12.5x30	0.095	0.190	2,100	16x40	0.060	0.160	2,100	
560	10x25	0.057	0.110	1,450	12.5x25	0.078	0.150	1,850					18x35.5	0.074	0.200	2,150	
680	10x30	0.048	0.092	1,700	12.5x30	0.068	0.130	2,230	12.5x35	0.081	0.160	2,280	18x40	0.060	0.160	2,250	
	12.5x20	0.050	0.096	1,670					16x26	0.087	0.170	2,170					
									12.5x40	0.075	0.140	2,570					
820					12.5x35	0.060	0.110	2,300	16x31.5	0.075	0.146	2,680					
									18x25	0.075	0.150	2,690					
1000	12.5x25	0.040	0.076	1,960	12.5x40	0.053	0.100	2,510	16x36	0.063	0.120	2,780					
					16x26	0.062	0.120	2,250									
1200	12.5x30	0.033	0.064	2,320	16x31.5	0.050	0.096	2,710	16x36	0.054	0.100	2,860					
					18x25	0.051	0.099	2,610	18x31.5	0.059	0.110	2,960					
1500	12.5x35	0.031	0.056	2,520	16x36	0.047	0.087	2,810	18x35.5	0.054	0.100	3,120					
1800	12.5x40	0.023	0.045	2,880	16x40	0.038	0.075	3,210	18x40	0.047	0.087	3,220					
	16x26	0.031	0.057	2,570	18x31.5	0.047	0.087	3,010									
2200	16x31.5	0.025	0.050	3,020	18x35.5	0.042	0.080	3,110									
	18x25	0.028	0.052	2,750													
2700	16x36	0.024	0.044	3,160	18x40	0.038	0.071	3,410									
	18x31.5	0.025	0.047	3,340													
3300	16x40	0.022	0.040	3,720													
	18x35.5	0.023	0.041	3,690													
3900	18x40	0.022	0.040	3,810													

HFN