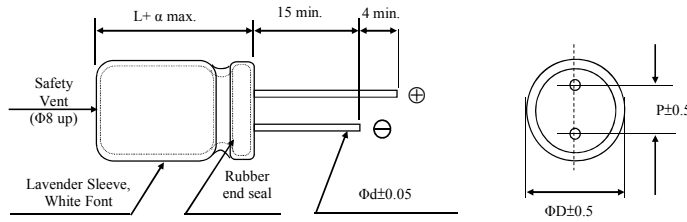


FOR APPROVAL

DIMENSIONS(mm)

ΦD	10	10
L	16	20
α	2.0	2.0
P	5.0	5.0
Φd	0.6	0.6



Customer: Ozdisan	Electrolytic Capacitors HFN Series	Su'scon
		Code

Electric Characteristics:

Ozdisan P/N	Su'scon P/N	Cap. (uF)	Cap. Tol. (%)	Rate Volt. (V-DC)	Surge Volt. (V-DC)	Oper. Temp. (°C)	Nominal Case Size D*L(mm)	Leakage Current Max (uA)	D.F. MAX (%)	R.C 100KHZ (mA rms)	I.M.P 100KHZ at 25°C (Ω)Max	Load Life (Hours)
	HFN035M471G20PE99S00A	470	±20	35	44	105	10*20	164	12	1230	0.065	6000
	HFN100M470G16PKKKS00A	47	±20	100	125	105	10*16	47	8	480	0.450	6000

REMARKS:

- Leakage Current Test:** 6.3V ~100V at 20°C for 2 minutes ;
 - Operating temperature:** 6.3V~50V -55°C~ +105°C, 63V~100V -40°C~ +105°C
 - Dissipation Factor Test:** at 20°C, 120 Hz.
 - Capacitance Test:** at 20°C, 120 Hz.
 - Ripple Current Test:** at 105°C, 100K Hz ;
 - Load Life:** subjected to DC voltage with the rated ripple current is applied at 105°C.
5~6.3Φ: 4000 hours, 8Φ: 5000 hours; 10Φ: 6000 hours.
12.5~13Φ: 7000 hours, 16Φ: 8000 hours, 18Φ: 8000 hours.
- Capacitance Change:** Within±25% of initial value;
tanδ: 200% or less of initial specified value;
 According to the specified value which stated in the catalogue to do the life testing;
- Leakage Current:** Initial specified value or less;
- Shelf Life:** The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours 105°C without voltage applide. Before the measurement, the capacitor shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4.
- Capacitance Change :** Within±25% of initial value;
tanδ: 200% or less of initial specified value;
Leakage Current: Initial specified value or less.
- when have characteristic requested :** Load life & shelf life test and etc. , judgment standard reference to our catalogue.

●SPECIFICATION

Leakage Current 洩漏電流	I ≤ 0.01CV or 3(uA)(After 2 minutes application of DC working voltage, at 20°C)									
Dissipation Factor 散逸因素 (損失角)	Rate Voltage(V)	6.3	10	16	25	35	50	63	100	
(tan δ)	tanδ (MAX)	0.24	0.20	0.16	0.15	0.12	0.10	0.09	0.08	
Standards 參照標準	When nominal capacitance over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF. JIS C-5101-4(IEC 60384)									

●RIPPLE CURRENT COEFFICIENTS

Frequency coefficient of allowable ripple current				
Capacitance(uF)	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

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise.

When long life performance is required in actual use, the rms ripple current has to be reduced.

Production date:2023.04.17