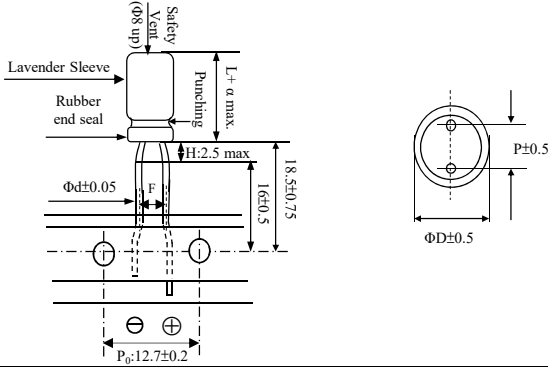


FOR APPROVAL

DIMENSIONS(mm)

ΦD	5
L	11
α	1.0
P	2.0
F ^{+0.8} _{-0.2}	2.5
Φd	0.5



Customer:	Ozdisan	Aluminum Electrolytic Capacitors									Su'scon	
		HGN Series									Code	

Electric Characteristics:													
Ozdisan	Su'scon	Cap.	Cap.	Rate	Surge	Oper.	Nominal	Leakage	D.F.	R.C	I.M.P	Load	
P/N	P/N	(uF)	Tol.	Volt.	Volt.	Temp.	Case Size	Current	MAX	100KHz	100KHz	Life	
			(%)	(V-DC)	(V-DC)	(℃)	D*L(mm)	Max (uA)	(%)	(mA rms)	at 25℃(Ω)Max	(Hours)	
	HGN050M330D11PE99P25L	33	±20	50	63	105	5*11	16	10	185	1.50	5000	

REMARKS:													
1. Leakage Current Test:		6.3V ~100V at 20℃ for 2 minutes ;											
2. Operating temperature:		6.3V~50V -55℃~ +105℃ ;63V~100V -40℃~ +105℃ ;											
3. Dissipation Factor Test:		at 20℃, 120 Hz.											
4. Capacitance Test:		at 20℃, 120 Hz.											
5. Ripple Current Test :		at 105℃, 100K Hz ;											
6. Load Life:		subjected to DC voltage with the rated ripple current is applied at 105℃.											
		6.3~10V ΦD≤6.3Φ 4000 hours,ΦD=8,10Φ 6000 hours,ΦD≥12.5Φ 8000 hours;											
		16~100V ΦD≤6.3Φ 5000 hours,ΦD=8,10Φ 7000 hours,ΦD≥12.5Φ 10000 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;											
7. Shelf Life:		The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1000 hours 105℃ 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.											
8.Special requirements:		Meet the AEC-Q200 qualified.											
9. when have characteristic requested:		Load life & shelf life test and etc. , judgment standard reference to our catalogue.											

●SPECIFICATION

Leakage Current 洩漏電流	$I \leq 0.01CV$ or $3(uA)$ (After 2 minutes application of DC working voltage, at 20℃)												
Dissipation Factor 散逸因素（損失角） (tan δ)	Measurement Frequency:120Hz. Temperature: 20℃												
	Rate Voltage(V)						6.3	10	16	25	35	50	63~80 100
	tanδ (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.												
Standards 參照標準	IEC 60384-4(JIS C5101-4)												

●RIPPLE CURRENT COEFFICIENTS

Frequency coefficient of allowable ripple current					
Capacitance(uF)	Frequency(Hz)				
	50	120	300	1K	100K
≤33	0.50	0.55	0.70	0.90	1.00
47~330	0.60	0.70	0.85	0.95	1.00
470~1000	0.65	0.75	0.90	0.98	1.00
1200~18000	0.70	0.80	0.95	1.00	1.00