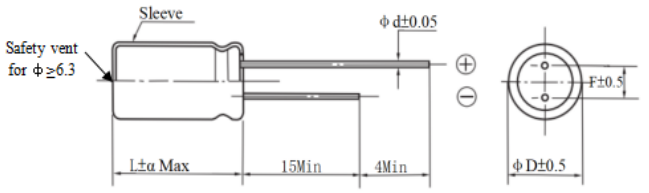
ALTERNATION HISTORY RECORDS 变更记录

Date 日期	Version 版本	Mark 标记	Page 页码	Description 描述	Drafter 制定者	Approver 审批者
2024-01-25	A	/	/	First release 首次发行	Doris Chang	/
202412-19	A-1	⚠1	P2	Modify the P5 molding size according to customer requirements	Doris Chang	Emily Peng

1. Dimensions: Unit: mm



ΦD	5.0	6.3	8(L＜20)	8（L≥20）	
F	2.0	2.5	2.5/3.5	2.5/3.5	
Φd	0.5			0.6	
ΦD	10	13	16	18	20
F	5.0		7.5	7.5	7.5
Φd	0.6		0.8	0.8	0.8
α	（L＜20) 1.5 ； (L≥20) 2.0				

2. Technical Parameter:

Aillen P/N	Cap. (μF) at +20°C	Cap. Tol.(%) at +20°C	Rate Volt. (VDC)	Surge Volt. (VDC)	Oper. Temp. (°C)	Case Size φD*L (mm)	Leakage Current[1)] (uA) Max at +20°C	Disspation Factor Max at +20°C 120Hz(%)	ESR Max at +20°C 120Hz (Ω)	ESR Max at +20°C 100kHz (Ω)	R.C Max at 105°C 120Hz (mA rms)	R.C Max at 85°C 120Hz (mA rms)	Load Life at 105°C (hours)
CBE688M1EH1TK30P5	6800	±20%	25	32	-40~105	16x30	1,700	26	0.06	/	2012	/	2000

Remark:：

1) 6.3~100V:L.C.≤0.01CVor 3 (μA) whichever is greater; 160~450V:I≤0.03CV+40 (μA),After 2 minute measured with rated working voltage applied, C: Capacitance (μF) V: Rated DC Working Voltage (V).

3. Multiplier For Ripple Current&Temperature coefficient

Remark : When capacitors are operated at temperatures other than +105°C, and frequency other than 120Hz, the maximum Ripple Current(R.C.) must be multiplied by the factors shown in below table.

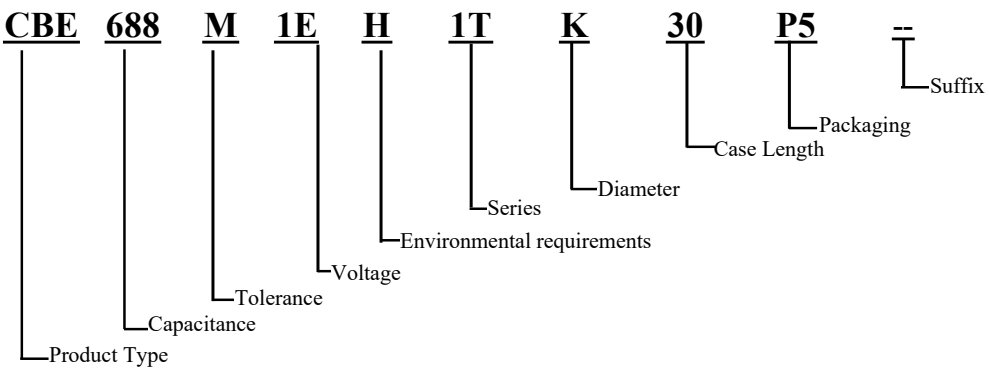
Frequency / Cap(μF) Coefficient	50(60) Hz	120Hz	500Hz	1kHz	≥10K
≤82μF	0.80	1.00	1.20	1.30	1.50
100~1000μF	0.75	1.00	1.10	1.15	1.20
＞1000μF	0.70	1.00	1.05	1.10	1.15

Temperature(℃)	105	85	≤70
Coefficient	1.0	1.5	2.0

4.Characteristics

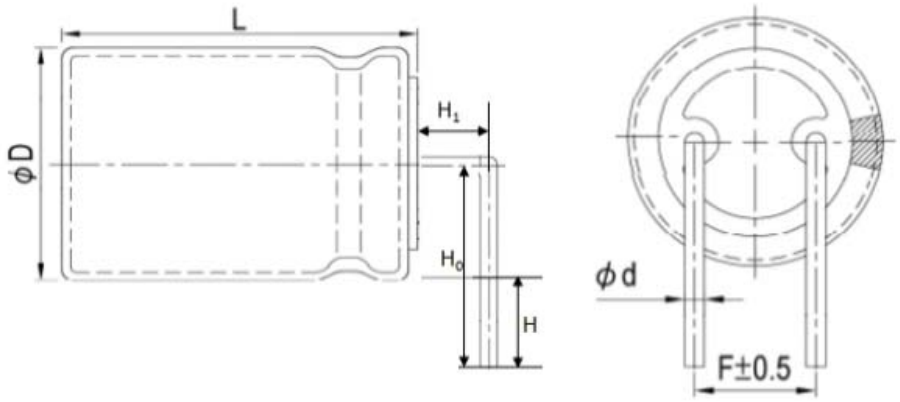
Item	Characteristics							
Load Life	The capacitor is stored at a temperature of 105±2°C with DC bias voltage plus the rated ripple current for 2000+48/0 hours. (The sum of DC and ripple peak voltage shall not exceed the rated working voltage) Then the product should be tested after 16 hours recovering time at atmospheric conditions. The result should meet the following table:							
	Capacitance Change	Within ±25% of initial value						
	Dissipation Factor	Not more than 200% of the specified value						
	Leakage Current	Not more than the specified value						
Shelf Life	The capacitors are then stored with no voltage applied at a temperature of 105±2℃ for 1000+48/0 hours. Following this period the capacitors shall be removed from the test chamber and be allowed to stabilized at room temperature for 4~8 hours. Next they shall be connected to a series limiting resistor(1k±100Ω) with D.C. rated voltage applied for 30min. After which the capacitors shall be discharged, and then, tested the characteristics.							
	Capacitance Change	Within ±20% of initial value						
	Dissipation Factor	Not more than 200% of the specified value						
	Leakage Current	Not more than the specified value						
Low Temperature Stability	Rated Voltage (V)	6.3	10	16	25~100	160~350	400~420	450
	Z-25°C/Z+20°C（120Hz）	5	4	3	2	4	6	15
	Z-40℃/Z+20℃（120Hz）	10	8	6	4	/	/	/

5.Part Number System:



6. P* or N* Forming Dimension (成型）：

Unit: mm



Type	Size	Molding size standard					
		F ± 0.4	H ⚠1	H_0 ⚠1	H_1	P max	φ d
P5	φ16	7.5	3.5±0.5	12.1±0.5	5.0 ±0.5	0.25	0.8±0.05