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SPECIFICATION FOR APPROVAL

File No.: Q/FRK 0.GS.E.C6A-C10

Product Name AC filter capacitor for PCB

Product Type C6A

Product Code C6AU1705KM1A000

Customer

Customer Code

Issue Date 2020-06

Xiamen Faratronic Co. Ltd.			Approved by Customer
Drafted	Checked	Approved	



Xiamen Faratronic Co. Ltd.

Add: 99 Xinyuan Road, Haicang District, Xiamen, China

Marketing/Sales center

TEL: 0086-592-2335737 6208505 6208586

FAX: 0086-592-6208777

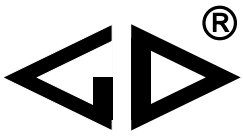
Mail: Vivian@faratronic.com.cn

Donny@faratronic.com.cn

James@faratronic.com.cn

Http: www.faratronic.com.cn

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Version history

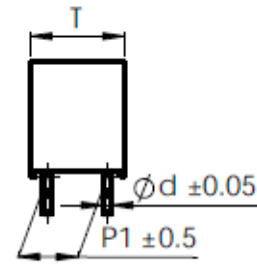
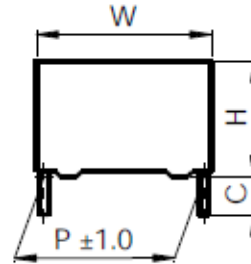
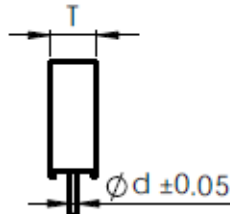
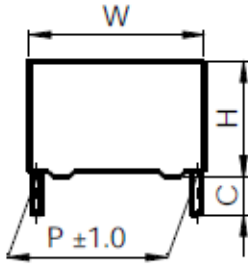
Current version	Date	Author	Change description

AC filter capacitor for PCB

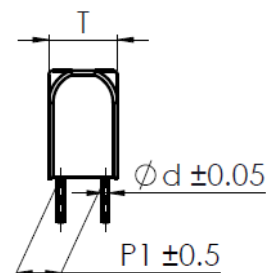
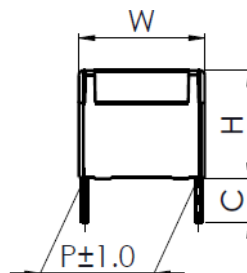
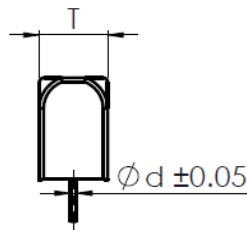
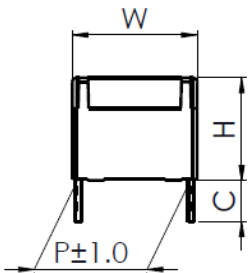
■ Outline Drawing

2 Pins

4 Pins



Square-bottom



Arc-bottom

■ Features

- Self-Healing
- Metallized polypropylene film structure
- Suitable for small power AC filter, i.e. UPS, Solar Photovoltaic DC/AC inverter with LCL filter.

■ Safety Approval

●		TUV Rheinland	EN 61071:2007, EN 61881-1:2011, U_{rms} : 180Vac~500Vac, U_N : 250Vac~700Vac 0.22 μ F~60 μ F, -40/85°C Certificate No.: R 50266136
●		UL/CUL	UL 810, CSA C22.2.No190, Construction Only, Max.660Vac, Max 90°C 证书号(File No.): E256238,CCN:CZDS2/8

■ Specifications

Reference Standard	GB/T 17702, IEC 61071	
Climatic Category	40/85/56	
Max operating Teperature Range(Case)	-40°C ~ +105°C 85°C (+85°C to +105°C: decreasing factor 1.5% per °C for U_{rms})	
Rated RMS Voltage (U_{rms})	600Vac	
Rated AC Voltage (U_N)	850Vac	
Maximum continuous DC voltage	1050Vdc	
Capacitance Range	7.0 μ F	
Capacitance Tolerance	±10%(K)	
Voltage Proof	Between Terminals:	1.5 U_{rms} (Vac) (10s)
	Between Terminals To Case:	3 000 Vac(60s)
Insulation Resistance(IR× C_N)	≥3 000s (20°C, 100V, 1min)	
Dissipation Factor	≤20×10 ⁻⁴ (1kHz,20°C)	



■ Part number system

The 18 digits part number is formed as follow:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

C	6	A															
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Digit 1 to 3 Series code

C6A

Digit 4 to 5 Rated RMS Voltage

L4=180V E2=250V Q1=300V U1=600V

Digit 6 to 8 Rated capacitance value

For example: 156=15×10⁶pF=15μF

Digit 9 Capacitance tolerance

J=±5%,K=±10%

Digit 10 Pitch

B=27.5mm F=37.5mm M=52.5mm

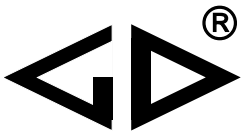
Digit 11 Internal use

Digit 12 to 15 Lead form and packaging code

Digit 16 to 18 Internal use

Table 1 lead form and packaging code

Digit 12		Digit 13 and Digit 14		Digit 15	
Code	explanation	Code	explanation	Code	explanation
0	Two pins(bulk)	55	lead length 5.5mm	0	Length tolerance ±1.0mm Or standard length
1	four pins(bulk) P1=10.0mm	00 38	standard lead length 5.5mm lead length 3.8mm	0	Length tolerance ±1.0mm Length tolerance ±0.5mm
2	four pins(bulk) P1=12.7mm				
3	four pins(bulk) P1=20.0mm				
B	four pins(bulk) P1=10.2mm				
A	four pins(bulk) P1=20.3mm				



C6A

■ Technical data(mm)

U _{rms} =600Vac, U _N =850Vac, U _{NDC} =1050Vdc													
C _N (μF)	W ±1.0	H ±1.0	T ±1.0	P ±1.0	P1 ±0.5	Pins	d ±0.05	L _s (nH)	ESR @10kHz (mΩ)	Î (A)	Î (A)	I _{max} @70°C,10kHz (A)	Part number
7.0	57.0	50.0	35.0	52.5	20.3	4	1.2	31	4.8	140	420	13	C6AU1705KM1A000

■ Caution and warnings

- When using the products shall not exceed the maximum allowed temperature
- Do not apply any mechanical stress to the capacitor terminals
- Do not exceed the specified time or temperature limits during soldering.