



CBB312 AX SERIES

代码编制规则 Part Number

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20												
F	C	S	3	B	A	X	2	2	4	K	B	E	8	1	5	0	0	B	T												
电容器类型 Capacitor type	产品外形 Product shape	额定电压代码 Rated voltage code (AC)	系列代码 Series code		容量代码 Capacitance code		容量偏差 Capacitance tolerance		引线类型 Pin Style	外壳尺寸代码* W×H×T Dimension code		引线间距 Pitch P1	引线间距 Pitch P2	引线直径 Lead diameter	内部特征 Internal use																
Film Capacitor=FC	Square=S	305=3B	CBB312=AX	0.0047=472	±5%=J	4Pin, 5mm=A	18*14.5*8.5=E8	37.5=37	0=00	0.6=A																					
												±10%=K	2Pin, 5mm=B	52.5=52	20.3=20	0.8=B															
																	±20%=M	4pin 4mm=S	7.5=7	1.0=C											
																					2pin 8.2mm=E	10=10	1.2=D								
																								2pin 9.2mm=D	12.5=12						
																										2pin 长引线 =C	15=15				
																												2pin 3.2mm=V	22.5=22		
																														2pin 3.5mm=U	27.5=27



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Typical Applications:

- interference suppression, across-the-line capacitor, EMI filter, spark-killer application in class X2. Suitable for use in situations where failure of the capacitor would not lead to danger of electric shock.

Features

- High stability of capacitance under severe ambient condition, such as high temperature and high humidity
- Long stability of capacitance
- High temperature (110°C)
- Self-healing property
- Over voltage stress withstanding.
- Flame-retard plastic case and resin.

主要用途:

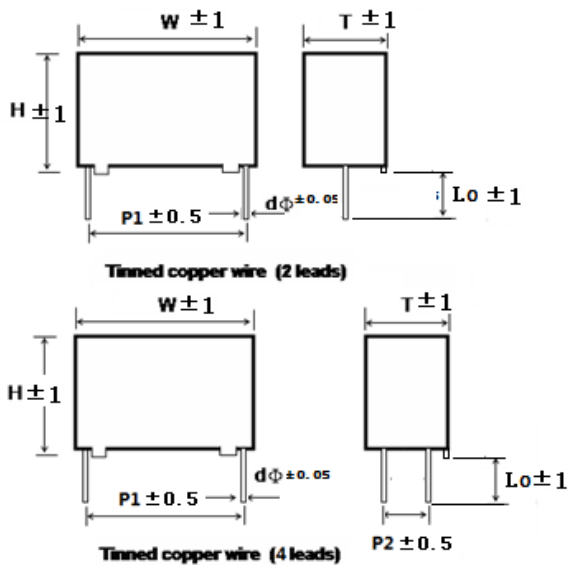
- 电源输入端跨接火线与零线间干扰及大脉波之衝擊，具有较高的安全性能，电容不会自燃及爆裂等危險傷害性之發生，具有较好的抑制雜訊及濾波之效果，如抑制輻射裝置（EMC）。

特点

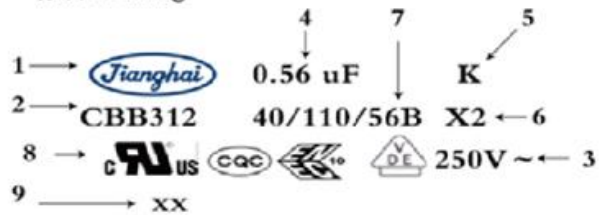
- 恶劣环境条件下电容的高稳定性,如高温、高湿度
- 电容稳定性好
- 高耐温（110°C）
- 自愈性好
- 能承受过压冲击
- 塑胶壳和环氧树脂具有优异的阻燃性能

外型图 Dimensions

Unit:mm



标识 Marking



NO	项 目 Item
1	商 标 Brand
2	产品系列 Products series
3	额定电压 Rated voltage
4	容 量 Capacitance
5	容量偏差 Tolerance
6	电容级别 Capacitor class
7	气候类别 Climatic category
8	安全认证 Approval brands
9	日期代码 Date code

APPROVALS:

Mark	structure	File no
	UL / CUL	E483922
	VDE	40044989
	ENEC	40044989
	CQC	CQC17001178020

**■ 性能特性 Specifications**

项目 Item	特性 Characteristics
引用标准 Reference Standard	IEC 60384-14, EN 60384-14, UL 60384-14
气候条件 Climatic Category	40/110/56 IEC60068-1
阻燃等级 Passive Flammability Class	B
工作温度范围 Operating Temperature Range	-40℃ to +110℃
容量范围 Capacitance Range	0.01uF to 45.0uF
额定电压 Rated Voltage	250Vac ~ 305Vac
公差 Capacitance Tolerance	±10% or ±20% at +25℃
损耗角正切 Dissipation Factor (DF)	≤ 0.001 (0.1%) at 1kHz at +25℃
端子间耐压 Test Voltage Between Terminals	1312VDC for 60s or 2000VDC 2s (terminal to terminal)
极壳耐压 Test Voltage Terminal to Case	2050Vac 50 Hz for 60 sec at +25℃
绝缘电阻 Insulation Resistance	>15,000 MΩ (C≤0.33uF)at 100VDC 1 minute at +25℃ >5,000 MΩ /uF (C>0.33uF)at 100VDC 1 minute at +25℃
期望寿命 Life Expectancy	100,000 hours at Un @ Hot-Spot temperature T=+85℃
防护等级 Protection	Solvent resistant plastic case UL94 V-0 Thermosetting resin sealing UL 94 V-0 compliant
安装方式 Installation	Any position
引脚 Leads	Tinned copper wires or Copper-clad Steel Wire
包装方式 Packaging	Packed in cardboard boxes with protection for the leads
RoHS 政策 RoHS Compliant	Compliant with the restricted substance requirements of Directive 2002/95/EC
高温高湿测试 THB Test (Damp heat test with loading)	Temperature : 85℃ ±2℃ ; Humidity : 85% ±2% Loading Voltage: 240Vac (50Hz/60Hz) ; Duration: 1000 hours Capacitance change(ΔC/C): ≤10%

■ 规格标准 Standard Ratings

U_R (V) (V_{AC})	C_R (uF)	P/N	W(mm)	H(mm)	T(mm)	P1(mm)	Peak Current (A)	dv/dt (V/us)	d(mm)
305	0.01	FCS3BAX103*BC41000A	13	11	5	10	5.0	500	0.6
	0.022	FCS3BAX223*BC41000A	13	11	5	10	11.0	500	0.6
	0.033	FCS3BAX333*BC41000A	13	11	5	10	16.5	500	0.6
	0.047	FCS3BAX473*BC51000A	13	12	6	10	23.5	500	0.6
	0.068	FCS3BAX683*BC51000A	13	12	6	10	34.0	500	0.6
	0.082	FCS3BAX823*BC51000A	13	12	6	10	41.0	500	0.6
	0.100	FCS3BAX104*BC51000A	13	12	6	10	50.0	500	0.6
	0.15	FCS3BAX154*BC91000A	13	14	8	10	75.0	500	0.6
	0.047	FCS3BAX473*BE51500A	18	12	6	15	18.8	400	0.6
	0.068	FCS3BAX683*BE51500A	18	12	6	15	27.2	400	0.6
	0.082	FCS3BAX823*BE51500A	18	12	6	15	32.8	400	0.6
	0.10	FCS3BAX104*BE51500A	18	12	6	15	40.0	400	0.6
	0.15	FCS3BAX154*BE51500A	18	12	6	15	60.0	400	0.6



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0.15	FCS3BAX154*BE91500A	18	13	7	15	60.0	400	0.6
0.22	FCS3BAX224*BEB1500B	18	14	8	15	88.0	400	0.8
0.27	FCS3BAX274*BE81500B	18	14.5	8.5	15	108.0	400	0.8
0.33	FCS3BAX334*BEC1500B	18	16	10	15	132.0	400	0.8
0.47	FCS3BAX474*BEG1500B	18	19	11	15	188.0	400	0.8
0.56	FCS3BAX564*BEG1500B	18	18	11	15	224.0	400	0.8
0.68	FCS3BAX684*BEI1500B	18	22	12.5	15	272.0	400	0.8
0.82	FCS3BAX824*BEI1500B	18	22	12.5	15	328.0	400	0.8
0.22	FCS3BAX224*BB22200B	26	16.5	7	22.5	44.0	200	0.8
0.27	FCS3BAX274*BB22200B	26	16.5	7	22.5	54.0	200	0.8
0.33	FCS3BAX334*BB32200B	26	17	8.5	22.5	66.0	200	0.8
0.47	FCS3BAX474*BB42200B	26	19	10	22.5	94.0	200	0.8
0.56	FCS3BAX564*BB42200B	26	19	10	22.5	112.0	200	0.8
0.68	FCS3BAX684*BB52200B	26	20	11	22.5	136.0	200	0.8
0.82	FCS3BAX824*BB52200B	26	20	11	22.5	164.0	200	0.8
1.00	FCS3BAX105*BB72200B	26	22	12	22.5	200.0	200	0.8
1.2	FCS3BAX125*BB62200B	26	23	13	22.5	240.0	200	0.8
1.5	FCS3BAX155*BB82200B	26	24	14	22.5	300.0	200	0.8
1.5	FCS3BAX155*BB92200B	26	25	15	22.5	300.0	200	0.8
1.00	FCS3BAX105*BI42700B	32	20	11	27.5	150.0	150	0.8
1.20	FCS3BAX125*BIK2700B	32	22	13	27.5	180.0	150	0.8
1.50	FCS3BAX155*BI82700B	32	24.5	13	27.5	225.0	150	0.8
2.2	FCS3BAX225*BIC2700B	32	28	14	27.5	330.0	150	0.8
3.3	FCS3BAX335*BIF2700B	32	33	18	27.5	495.0	150	0.8
4.7	FCS3BAX475*BII2700B	32	37	22	27.5	705.0	150	0.8
4.7	FCS3BAX475*BF53700C	42.5	32	19	37.5	470.0	100	1.0
6.80	FCS3BAX685*BF93700C	42.5	44	24	37.5	680.0	100	1.0
10.00	FCS3BAX106*BFI3700C	42.5	45	30	37.5	1000.0	100	1.0
12.00	FCS3BAX126*BFI3700C	42.5	45	30	37.5	1200.0	100	1.0
12.00	FCS3BAX126*BHH5200D	57.5	45	30	52.5	1200.0	100	1.2
15.00	FCS3BAX156*BFI3700C	42.5	45	30	37.5	1500.0	100	1.0
15.00	FCS3BAX156*BHH5200D	57.5	45	30	52.5	1500.0	100	1.2
18.00	FCS3BAX186*BHH5200D	57.5	45	30	52.5	1800.0	100	1.2
20.00	FCS3BAX206*BHH5200D	57.5	45	30	52.5	2000.0	100	1.2
22.00	FCS3BAX226*BHH5200D	57.5	45	30	52.5	2200.0	100	1.2
25.00	FCS3BAX256*BHH5200D	57.5	45	30	52.5	2500.0	100	1.2
30.00	FCS3BAX306*BHH5200D	57.5	45	30	52.5	3000.0	100	1.2
30.00	FCS3BAX306*BHL5200D	57.5	50	35	52.5	3000.0	100	1.2
33.00	FCS3BAX336*BHL5200D	57.5	50	35	52.5	3300.0	100	1.2
39.00	FCS3BAX396*BHL5200D	57.5	50	35	52.5	3900.0	100	1.2
40.00	FCS3BAX406*BHL5200D	57.5	50	35	52.5	4000.0	100	1.2
45.00	FCS3BAX456*BHA5200D	57.5	53	50	52.5	4500.0	100	1.2
45.00	FCS3BAX564*BH25200D	57.5	60	45	52.5	4500.0	100	1.2

可根据客户要求定制。Customer products are available on request.