

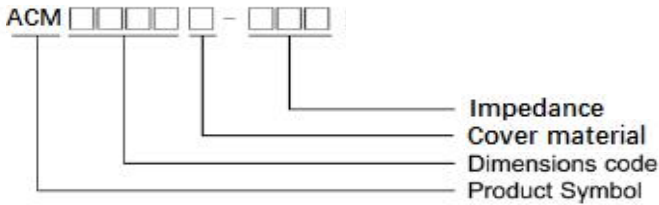
# SMD Common Mode Filters – ACM Series

## ACM Series

### Features

- Chip common mode filter for large current applications  
For each series, there is excellent common mode impedance and noise suppression in a compact case.
- Compatible with high-density portable devices, which are always being made smaller and lighter, because the height has been reduced.
- Low profile and small size makes it optimal for surface mounting

### Product Identification

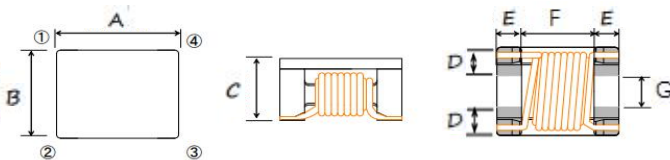


### Applications

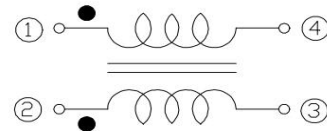
- Power line noise countermeasure for various electronic equipment.(DVCs, DVD cams, DSCs, etc.).
- Noise countermeasure for adapter lines and battery lines or larger electronic equipment such as note book PCs and word processors.

## Shapes and Dimensions

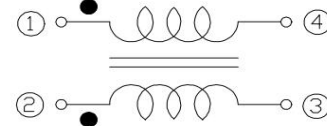
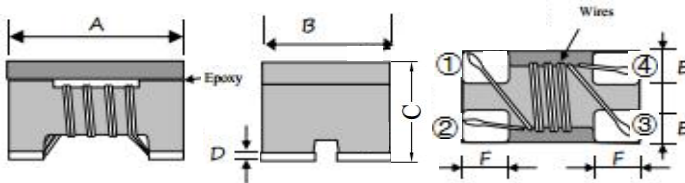
### ACM-3225 Series



## Circuit Diagram

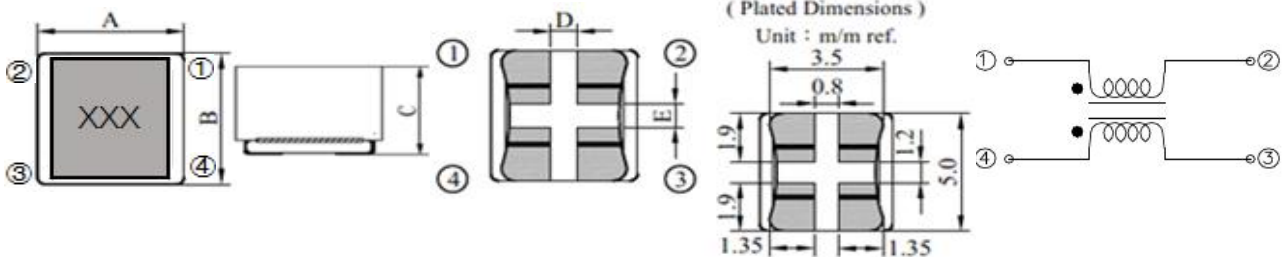


### ACM-4532 Series



### ACM-5020 Series

### ACM-5040 Series

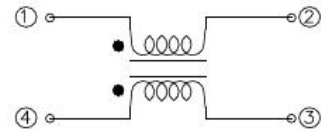
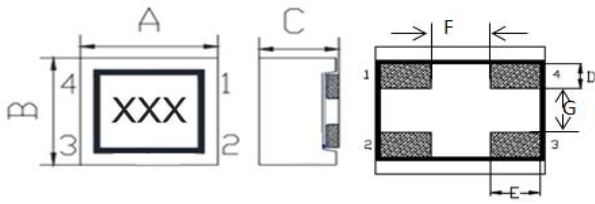


# SMD Common Mode Filters – ACM Series

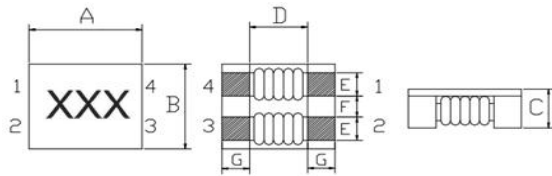
## Shapes and Dimensions

## Circuit Diagram

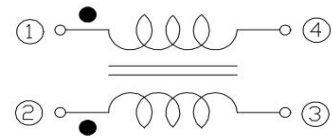
### ACM-5045 Series



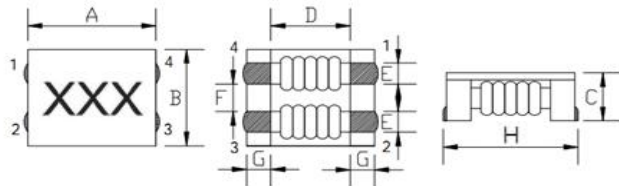
### ACM-7060 Series ACM-9070 Series



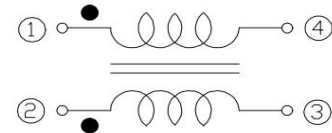
TOP VIEW      BOTTOM VIEW      SIDE VIEW



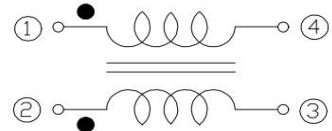
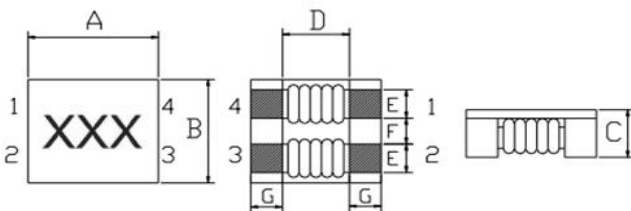
### ACM-1211 Series



TOP VIEW      BOTTOM VIEW      SIDE VIEW



### ACM-1513 Series



### Dimensions in mm

TYPE	A	B	C	D	E	F	G	H
3225	3.2±0.2	2.5±0.2	2.0±0.2	0.9 Typ.	0.75 Typ.	1.7 Typ.	0.7 Typ.	--
4532	4.5±0.2	3.2±0.2	2.8±0.2	0.2±0.1	1.2Typ.	1.0 Typ.	--	--
5020	4.8±0.2	5.0±0.2	2.5 Max.	0.8 Typ.	1.0 Typ.	--	--	--
5040	4.8±0.2	5.0±0.2	4.5 Max.	0.8 Typ.	1.0 Typ.	--	--	--
5045	5.0±0.3	4.5±0.3	2.8±0.3	1.0 Typ.	1.65 Typ.	1.2±0.3	1.2±0.3	--
7060	7.0±0.5	6.0±0.5	3.8 Max.	3.5 Typ.	1.5±0.2	1.5±0.2	1.75±0.2	--
9070	9.0±0.5	7.0±0.5	4.8 Max.	5.7 Typ.	1.5 Typ.	2.0 Typ.	1.7 Typ.	--
1211	12.0±0.5	10.8 ±0.5	6.4 Max.	7.0 Typ.	2.7±0.2	2.5±0.2	2.5±0.2	12.5±0.5
1513	15.0±0.5	13.0±0.4	6.0 Max.	10.4 Typ.	2.7±0.2	3.8±0.2	2.3±0.2	--

## SMD Common Mode Filters – ACM Series

### ACM-3225 Series

#### Standard Specifications

Part No.	Impedance( $\Omega$ )		Test frequency (Hz)	RDC ( $\Omega$ ) Max(1LINE)	Rated current (A)Max.	Rated Voltage (Vdc)	Insulation Resistance (M $\Omega$ )Min.
	Min	Typ					
ACM-3225-102	--	1000	100M/0.2V	0.22	1.50	50	10

- IDC for a 40°C rise above temperature 25°C ambient
- I.R: 50V(DC)/0.5S, Series test(串联测试)

Test Instrument:

Impedance: HP4287A

DCR: Chroma 16502 OR TH2512B

Insulation Resistance: TH2683A OR HP4339B

IDC: Agilent 6641SYSTEM DC POWER SUPPLY OR TH2829A+TH1773

### ACM-4532 Series

#### Standard Specifications

Part No.	Impedance( $\Omega$ )		Test frequency (Hz)	RDC ( $\Omega$ ) Max(1LINE)	Rated current (A)Max.	Rated Voltage (Vdc)	Insulation Resistance (M $\Omega$ )Min.
	Min	Typ					
ACM-4532-101	--	100	100M/0.2V	0.25	2.0	50	10
ACM-4532-251	--	250	100M/0.2V	0.25	1.5	50	10
ACM-4532-601	--	600	100M/0.2V	0.25	1.0	50	10
ACM-4532-102	--	1000	100M/0.2V	0.30	0.8	50	10

- IDC for a 40°C rise above temperature 25°C ambient
- I.R: 50V(DC)/0.5S, Series test(串联测试)

Test Instrument:

Impedance: HP4287A

DCR: Chroma 16502 OR TH2512B

Insulation Resistance: TH2683A OR HP4339B

IDC: Agilent 6641SYSTEM DC POWER SUPPLY OR TH2829A+TH1773

## SMD Common Mode Filters – ACM Series

### ACM-5020 Series

#### Standard Specifications

Part No.	Impedance( $\Omega$ )		Test frequency (Hz)	RDC ( $\Omega$ ) Max(1LINE)	Rated current (A)Max.	Rated Voltage (Vdc)	Insulation Resistance (M $\Omega$ )Min.
	Min	Typ					
ACM-5020-101	--	100	100M/0.2V	9m	6.0	50	10
ACM-5020-251	--	250	100M/0.2V	14m	5.0	50	10
ACM-5020-501	--	500	100M/0.2V	19m	4.0	50	10
ACM-5020-102	--	1000	100M/0.2V	24m	2.0	50	10
ACM-5020-142	--	1400	100M/0.2V	40m	1.5	50	10
ACM-5020-152	--	1500	100M/0.2V	40m	1.5	50	10

- IDC for a 40°C rise above temperature 25°C ambient
- I.R: 50V(DC)/0.5S, Series test(串联测试)

Test Instrument:

Impedance: HP4287A

DCR: Chroma 16502 OR TH2512B

Insulation Resistance: TH2683A OR HP4339B

IDC: Agilent 6641SYSTEM DC POWER SUPPLY OR TH2829A+TH1773

### ACM-5040 Series

#### Standard Specifications

Part No.	Impedance( $\Omega$ )		Test frequency (Hz)	RDC ( $\Omega$ ) Max(1LINE)	Rated current (A)Max.	Rated Voltage (Vdc)	Insulation Resistance (M $\Omega$ )Min.
	Min	Typ					
ACM-5040-191	--	190	100M/0.2V	0.02	5.0	50	10
ACM-5040-351	--	350	100M/0.2V	0.04	2.0	50	10
ACM-5040-102	--	1000	100M/0.2V	0.06	1.5	50	10
ACM-5040-152	--	1500	100M/0.2V	0.10	1.0	50	10
ACM-5040-302	--	3000	100M/0.2V	0.20	0.5	50	10
ACM-5040-402	--	4000	100M/0.2V	0.30	0.2	50	10

- IDC for a 40°C rise above temperature 25°C ambient
- I.R: 50V(DC)/0.5S, Series test(串联测试)

Test Instrument:

Impedance: HP4287A

DCR: Chroma 16502 OR TH2512B

Insulation Resistance: TH2683A OR HP4339B

IDC: Agilent 6641SYSTEM DC POWER SUPPLY OR TH2829A+TH1773

## SMD Common Mode Filters – ACM Series

### ACM-5045 Series

#### Standard Specifications

Part No.	Impedance(Ω)		Test frequency (Hz)	RDC (Ω) (1LINE)	Rated current (A)Max.	Rated Voltage (Vdc)	Insulation Resistance (MΩ)Min.
	Min	Typ					
ACM-5045-101	--	100	100M/0.2V	9m±40%	6.00	50	10
ACM-5045-251	--	250	100M/0.2V	14m±40%	5.0	50	10
ACM-5045-351	--	350	100M/0.2V	40m Max	2.0	50	10
ACM-5045-501	--	500	100M/0.2V	19m±40%	2.0	50	10
ACM-5045-102	--	1000	100M/0.2V	24m±40%	2.0	50	10
ACM-5045-142	--	1400	100M/0.2V	40m±40%	2.0	50	10
ACM-5045-152	--	1500	100M/0.2V	0.1 Max	1.0	50	10
ACM-5045-302	--	3000	100M/0.2V	0.3 Max	1.0	50	10

- IDC for a 40°C rise above temperature 25°C ambient
- I.R: 50V(DC)/0.5S, Series test(串联测试)

Test Instrument:

Impedance: HP4287A

DCR: Chroma 16502 OR TH2512B

Insulation Resistance: TH2683A OR HP4339B

IDC: Agilent 6641SYSTEM DC POWER SUPPLY OR TH2829A+TH1773

### ACM-7060 Series

#### Standard Specifications

Part No.	Impedance(Ω)		Test frequency (Hz)	RDC (Ω) Max(1LINE)	Rated current (A)Max.	Rated Voltage (Vdc)	Insulation Resistance (MΩ)Min.
	Min	Typ					
ACM-7060□-400	40	70	100M/0.2V	5m	15	50	10
ACM-7060□-101	100	140	100M/0.2V	10m	9	50	10
ACM-7060□-301	225	300	100M/0.2V	10m	5	50	10
ACM-7060□-501	275	500	100M/0.2V	10m	5	50	10
ACM-7060□-601	500	700	100M/0.2V	15m	4	50	10
ACM-7060□-701	600	700	100M/0.2V	15m	4	50	10
ACM-7060□-102	800	1020	100M/0.2V	17m	3	50	10
ACM-7060□-132	910	1300	100M/0.2V	21m	2.5	50	10
ACM-7060□-272	2000	2700	100M/0.2V	63m	1	50	10
ACM-7060□-302	2500	3000	100M/0.2V	75m	0.9	50	10

- '□' specify the cover material, **F**=Black LCP engineering plastics; **M**=Golden high temperature tape
- IDC for a 40°C rise above temperature 25°C ambient
- I.R: 50V(DC)/0.5S, Series test(串联测试)

Test Instrument:

Impedance: HP4287A

DCR: Chroma 16502 OR TH2512B

Insulation Resistance: TH2683A OR HP4339B

IDC: Agilent 6641SYSTEM DC POWER SUPPLY OR TH2829A+TH1773

◆ 黑色LCP材上盖



◆ 金色金手指材上盖



## SMD Common Mode Filters – ACM Series

### ACM-9070 Series

#### Standard Specifications

Part No.	Impedance( $\Omega$ )		Test frequency (Hz)	RDC ( $\Omega$ ) Max(1LINE)	Rated current (A)Max.	Rated Voltage (Vdc)	Insulation Resistance (M $\Omega$ )Min.
	Min	Typ					
ACM-9070□-301	225	300	100M/0.2V	6m	6.0	50	10
ACM-9070□-501	450	600	100M/0.2V	8m	5.5	50	10
ACM-9070□-701	500	700	100M/0.2V	10m	5.0	50	10
ACM-9070□-102	750	1000	100M/0.2V	13m	4.0	50	10
ACM-9070□-222	1700	2200	100M/0.2V	60m	2.5	50	10
ACM-9070□-272	2000	2700	100M/0.2V	65m	2.0	50	10
ACM-9070□-302	2500	3000	100M/0.2V	70m	3.0	50	10

- '□' specify the cover material, **F**=Black LCP engineering plastics; **M**=Golden high temperature tape
- IDC for a 40°C rise above temperature 25°C ambient
- I.R: 50V(DC)/0.5S, Series test(串联测试)

Test Instrument:

Impedance: HP4287A

DCR: Chroma 16502 OR TH2512B

Insulation Resistance: TH2683A OR HP4339B

IDC: Agilent 6641SYSTEM DC POWER SUPPLY OR TH2829A+TH1773

◆ 黑色LCP材上盖



◆ 金色金手指材上盖



### ACM-1211 Series

#### Standard Specifications

Part No.	Impedance( $\Omega$ )		Test frequency (Hz)	RDC ( $\Omega$ ) Max(1LINE)	Rated current (A)Max.	Rated Voltage (Vdc)	Insulation Resistance (M $\Omega$ )Min.
	Min	Typ					
ACM-1211□-800	80	230	100M/0.2V	2.0m	10.0	50	10
ACM-1211□-701	500	700	100M/0.2V	6.0m	8.0	50	10
ACM-1211□-801	600	800	100M/0.2V	8.0m	8.0	50	10
ACM-1211□-102	750	1000	100M/0.2V	14m	6.0	50	10
ACM-1211□-222	2200	2500	100M/0.2V	35m	1.8	50	10
ACM-1211□-272	2300	2700	100M/0.2V	50m	1.5	50	10

- '□' specify the cover material, **F**=Black LCP engineering plastics; **M**=Golden high temperature tape
- IDC for a 40°C rise above temperature 25°C ambient
- I.R: 50V(DC)/0.5S, Series test(串联测试)

Test Instrument:

Impedance: HP4287A

DCR: Chroma 16502 OR TH2512B

Insulation Resistance: TH2683A OR HP4339B

IDC: Agilent 6641SYSTEM DC POWER SUPPLY OR TH2829A+TH1773

## SMD Common Mode Filters – ACM Series

### ACM-1513 Series

#### Standard Specifications

Part No.	Impedance( $\Omega$ )		Test frequency (Hz)	RDC ( $\Omega$ ) Max(1LINE)	Rated current (A)Max.	Rated Voltage (Vdc)	Insulation Resistance (M $\Omega$ )Min.
	Min	Typ					
ACM-1513□-301	250	300	100M/0.2V	5m	13	50	10
ACM-1513□-551	450	550	100M/0.2V	6m	12	50	10
ACM-1513□-601	600	800	100M/0.2V	7m	11	50	10
ACM-1513□-701	600	800	100M/0.2V	7m	11	50	10
ACM-1513□-102	800	1000	100M/0.2V	12m	10	50	10

- '□' specify the cover material, **F**=Black LCP engineering plastics; **M**=Golden high temperature tape
- IDC for a 40°C rise above temperature 25°C ambient
- I.R: 50V(DC)/0.5S, Series test(串联测试)

Test Instrument:

Impedance: HP4287A

DCR: Chroma 16502 OR TH2512B

Insulation Resistance: TH2683A OR HP4339B

IDC: Agilent 6641SYSTEM DC POWER SUPPLY OR TH2829A+TH1773

◆ 黑色LCP材上盖



◆ 金色金手指材上盖

