

FEATURES

- Winding type realizes small size and low profile
- Prevention of common mode noise at high frequency
- Excellent solderability
- Operating temperature -40~+125℃ (Including self - temperature rise)
- RoHS Compliant


FEATURES

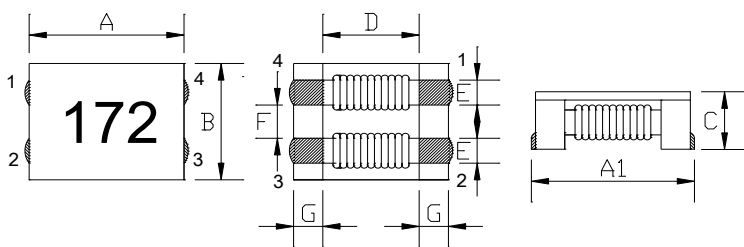
- Power line noise countermeasure for electronic equipment (Notebook, server applications, Battery , etc.)
- Best for high current circuit such as car
- Wireless charging and power device design

Explanation of Part Number

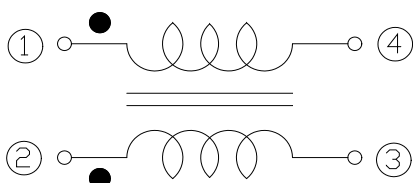
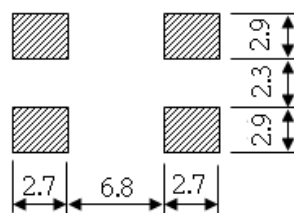
ACM 1211 F- 701 T 80

1 2 3 4 5 6

- ◆ 1:Product Series:Wire Wound Chip Common Mode Filters
- ◆ 2:Dimensions:
- ◆ 3: Material Code:Ferrite
- ◆ 4:Common Mode Impedance(Ω)
- ◆ 5:Packing(Tape & Reel)
- ◆ 6:Rated Current: 80=8000mA

Shapes and Dimensions [Dimensions in mm]


A:	12.0±0.5	mm
A1:	12.5±0.5	mm
B:	10.8±0.5	mm
C:	8.5 Max.	mm
D:	7.0 Typ.	mm
E:	2.7±0.2	mm
F:	2.5±0.2	mm
G:	2.5±0.2	mm

Equivalent circuit

Land Pattern: [mm]


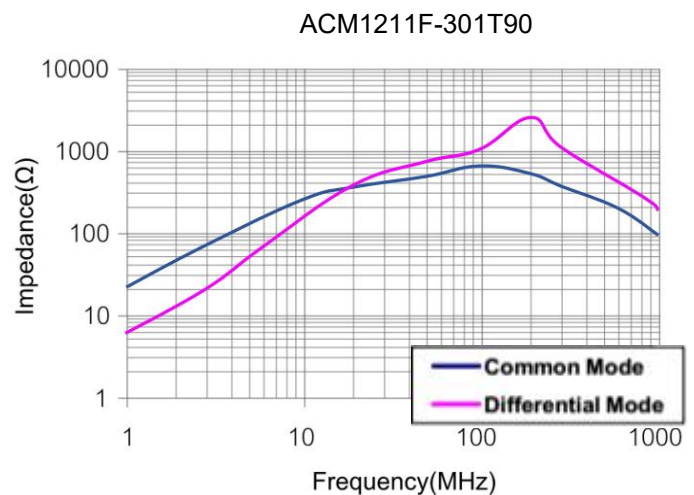
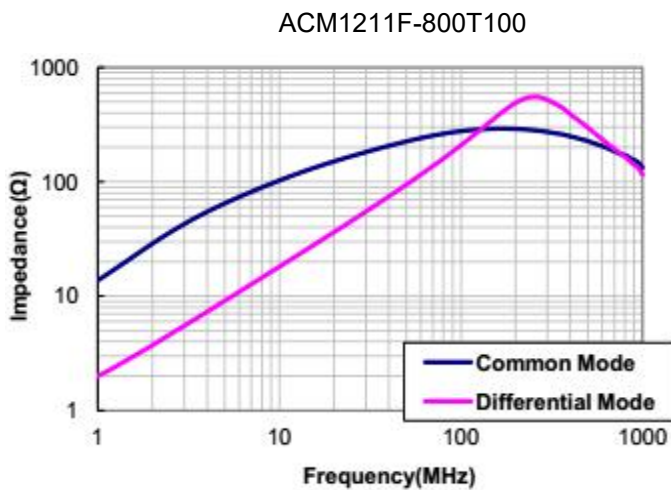
Electrical Characteristics:

Part Number	Impedance (Ω) @100MHz		DC Resistance (m Ω) Max	Rated Current (A) Max	Rated Voltage (V) Max	Insulation Resistance (M Ω) Min	Marking
	MIN	TYP					
ACM1211F-800T100	80	230	2.0	10.0	125	10	800
ACM1211F-301T90	200	300	4.0	9.0	125	10	301
ACM1211F-501T80	300	500	5.5	8.0	125	10	501
ACM1211F-701T80	500	700	6.0	8.0	125	10	701
ACM1211F-801T80	600	800	8.0	8.0	125	10	801
ACM1211F-102T60	750	1000	14	6.0	125	10	102
ACM1211F-222T18	2200	2500	35	1.8	125	10	222
ACM1211F-272T15	2300	2700	50	1.5	125	10	272

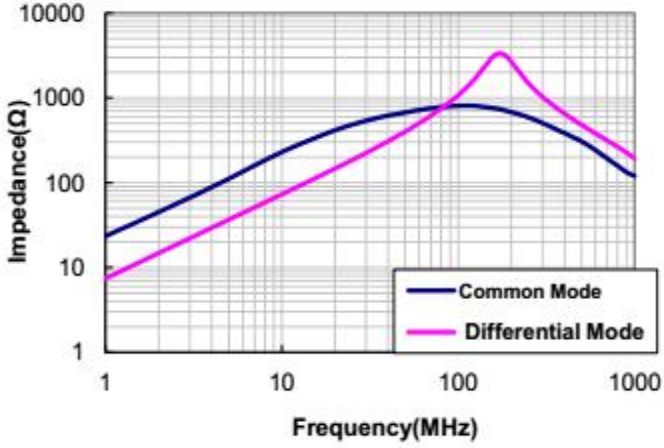
Rated Current : Based on temperature rise (ΔT : 40°C TYP.)

TYPICAL ELECTRICAL CHARACTERISTICS

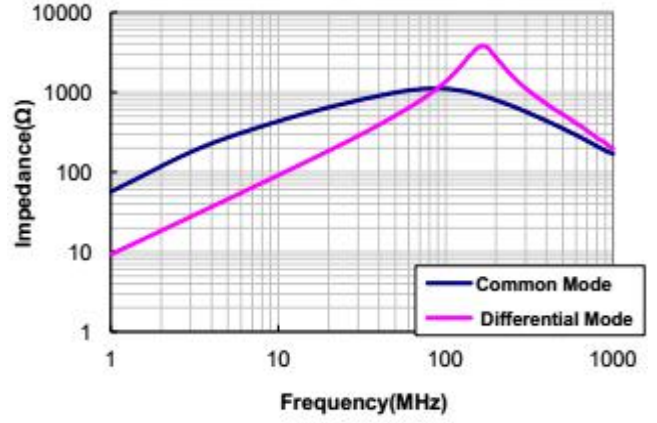
Impedance VS. Frequency



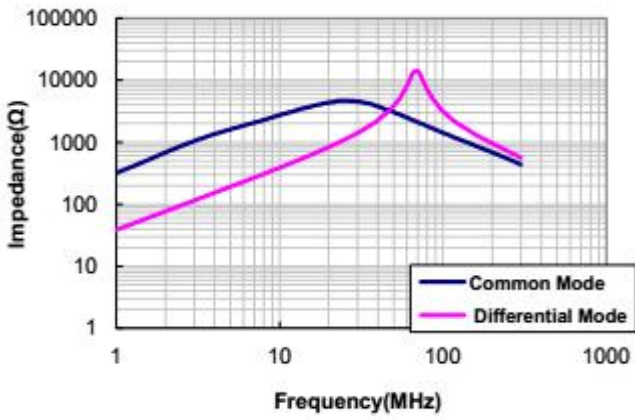
ACM1211F-701T80
ACM1211F-801T80



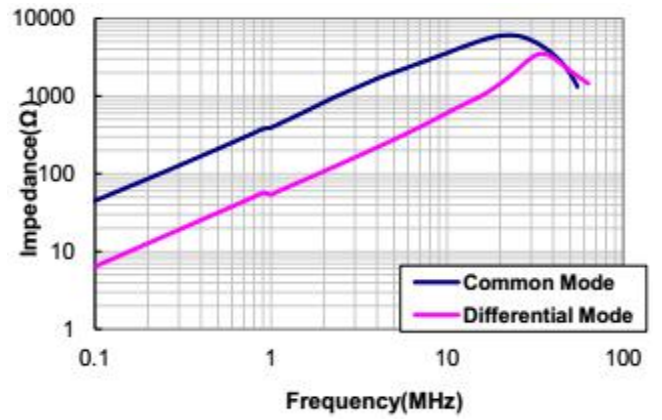
ACM1211F-102T60



ACM1211F-222T18



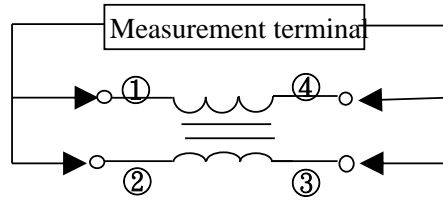
ACM1211F-272T15



TEST EQUIPMENT

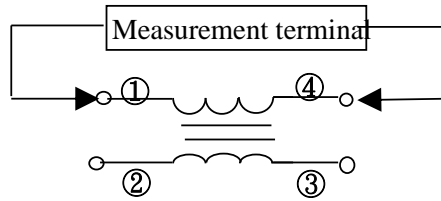
Impedance

Measured by using HP4291B RF Impedance Analyzer.



DC Resistance

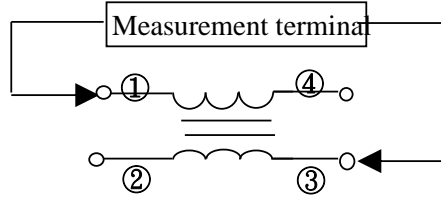
Measured by using Chroma 16502 milliohm meter.



Insulation Resistance

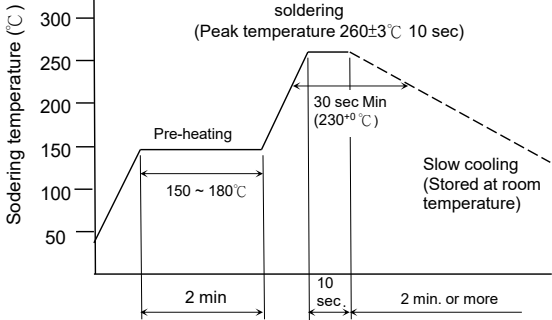
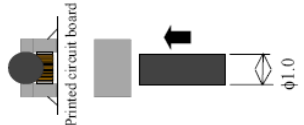
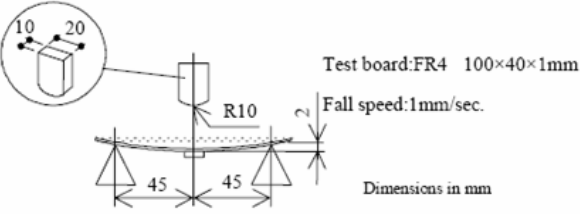
Measured by using Chroma 19073

Measurement voltage : 50v , Measurement time : 60 sec.

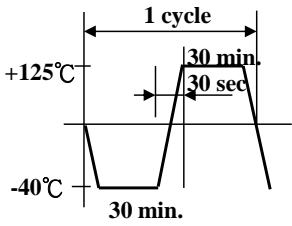


Reliability Test

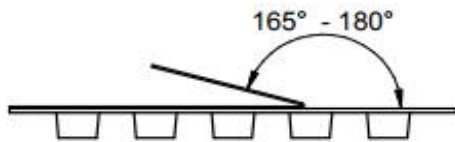
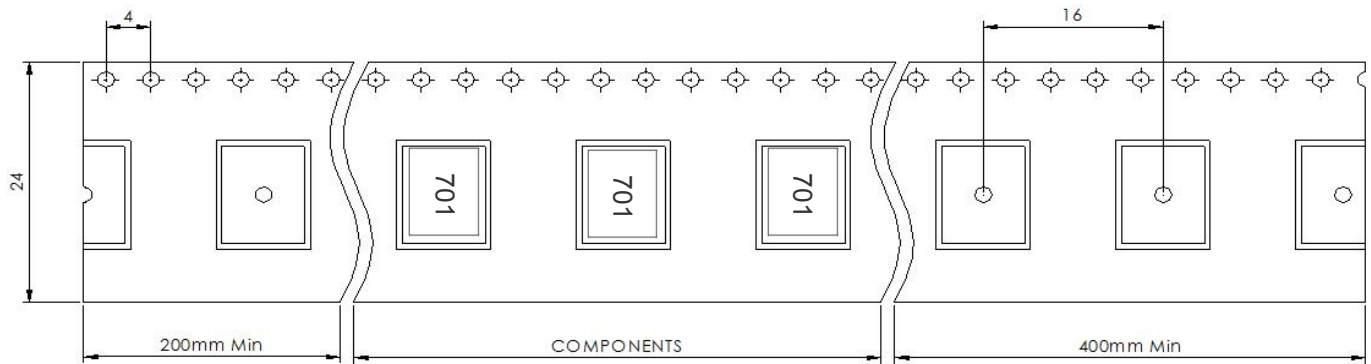
MECHANICAL

TEST ITEM	SPECIFICATION	TEST DETAILS
Solder ability	The product shall be connected to the test circuit board by the fillet (the height is 0.2mm).	Apply cream solder to the printed circuit board . Refer to clause 8 for Reflow profile.
Resistance to Soldering heat (reflow soldering)	There shall be no damage or problems.	<p>Temperature profile of reflow soldering</p>  <p>The specimen shall be passed through the reflow oven with the condition shown in the above profile for 1 time. The specimen shall be stored at standard atmospheric conditions for 1 hour, after which the measurement shall be made.</p>
Terminal strength	The terminal electrode and the ferrite must not be damaged.	<p>Solder a chip to test substrate , and then laterally apply a load 9.8N in the arrow direction.</p> 
Strength on PC board bending	The terminal electrode and the ferrite must not be damaged.	<p>Solder a chip to test substrate and then apply a load.</p>  <p>Test board:FR4 100×40×1mm Fall speed:1mm/sec. Dimensions in mm</p>
High temperature resistance	<p>Impedance:Within±20% of the initial value.</p> <p>Insulation resistance and DC resistance on the specification(refer to clause 2-1) shall be met.</p> <p>The terminal electrode and the ferrite must not be damaged.</p>	<p>After the samples shall be soldered onto the test circuit board,the test shall be done.</p> <p>Measurement : After placing for 24 hours min.</p> <p>Temperature : +125±2°C</p> <p>Applied voltage : Rated voltage</p> <p>Applied current : Rated current</p> <p>Testing time : 500±12 hours</p>

MECHANICAL

TEST ITEM	SPECIFICATION	TEST DETAILS
Humidity resistance	<p>Impedance: Within $\pm 20\%$ of the initial value.</p> <p>Insulation resistance and DC resistance on the specification (refer to clause 2-1) shall be met.</p> <p>The terminal electrode and the ferrite must not be damaged.</p>	<p>After the samples shall be soldered onto the test circuit board, the test shall be done.</p> <p>Measurement : After placing for 24 hours min.</p> <p>Temperature : $+60 \pm 2^\circ\text{C}$, Humidity : 90 to 95 %RH</p> <p>Applied voltage : Rated voltage</p> <p>Applied current : Rated current</p> <p>Testing time : 500 ± 12 hours</p>
Thermal shock	<p>Impedance: Within $\pm 20\%$ of the initial value.</p> <p>Insulation resistance and DC resistance on the specification (refer to clause 2-1) shall be met.</p> <p>The terminal electrode and the ferrite must not be damaged.</p>	
Low temperature storage	<p>Impedance: Within $\pm 20\%$ of the initial value.</p> <p>Insulation resistance and DC resistance on the specification (refer to clause 2-1) shall be met.</p> <p>The terminal electrode and the ferrite must not be damaged.</p>	<p>After the samples shall be soldered onto the test circuit board, the test shall be done.</p> <p>Measurement : After placing for 24 hours min.</p> <p>Temperature : $-40 \pm 2^\circ\text{C}$</p> <p>Testing time : 500 ± 12 hours</p>
Vibration	<p>Impedance: Within $\pm 20\%$ of the initial value.</p> <p>Insulation resistance and DC resistance on the specification (refer to clause 2-1) shall be met.</p> <p>The terminal electrode and the ferrite must not be damaged.</p>	<p>After the samples shall be soldered onto the test circuit board, the test shall be done.</p> <p>Frequency : 10 to 55 Hz</p> <p>Amplitude : 1.52 mm</p> <p>Dimension and times : X ,Y and Z directions for 2 hours each.</p>
Solderability	<p>New solder More than 75%</p>	<p>Flux (rosin, isopropyl alcohol{JIS-K-1522}) shall be coated over the whole of the sample before hard, the sample shall then be preheated for about 2 minutes in a temperature of $130 \sim 150^\circ\text{C}$ and after it has been immersed to a depth 0.5mm below for 3 ± 0.2 seconds fully in molten solder M705 with a temperature of $245 \pm 2^\circ\text{C}$. More than 75% of the electrode sections shall be covered with new solder smoothly when the sample is taken out of the solder bath.</p>

Packaging



Tape width	Distance	Pull-of force
24 mm	16 mm	10~120g

Packing Quantity

500 pcs./reel

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