

SMD Common Mode Choke - 7060 (Power Line)



Features & Application

2020/1/1

- 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.

- Power line noise countermeasure for various electronic equipment Noise countermeasure for adapter lines and battery lines or PCs and word processors.

larger electronic equipment such as note book

- Environmental RoHS compliant, halogen free

- Terminations RoHS compliant matte tin over nickel over silver palladium-glass frit.

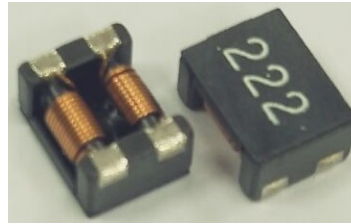
- Ambient temperature -40°C to +85°C with Irms current.

- Maximum Part Temperature +105°C

- Storage temperature Component: -40°C to +85°C. • Tape and reel packaging: -40°C to +80°C

- Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between

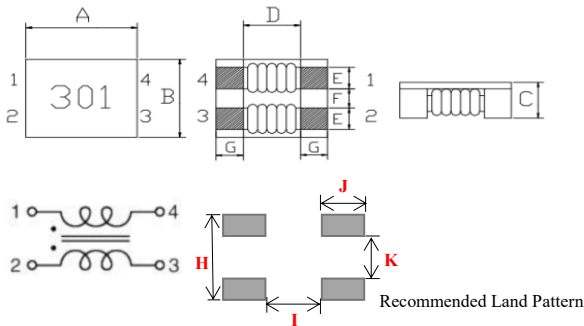
Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C /85% relative humidity)



★ When ordering, please check part number

Part number	Impedance(Ω) @100MHz min. typ.	DC Resistance (mΩ) max	Rated Current (A) max.	MARK
ACM7060F400-15AT	40 70	5	15	400
ACM7060F101-9AT	100 40	10	9	101
ACM7060F301-5AT	225 300	10	5	301
ACM7060F501-5AT	275 350	10	5	501
ACM7060F601-4AT	500 700	15	4	601
ACM7060F701-4AT	500 700	15	4	701
ACM7060F102-3AT	800 1020	17	3	102
ACM7060F132-2.5AT	910 1300	21	2.5	132
ACM7060F272-1AT	2000 2700	63	1	272
ACM7060F302-0.9AT	2500 3000	75	0.9	302

Isolation (Vrms) : 250V. Winding to winding isolation (hipot) tested for one minute.



Dimensions (unit : mm)	
A	7.00±0.5
B	6.00±0.5
C	3.8 max
D	3.5 Ref
E	1.50±0.2
F	1.50±0.2
G	1.75±0.2
H	5.00 typ
I	0.75 typ
J	3.00 typ
K	1.50 typ

Impedance/Inductance/Q/ LCR	Angilent E4991A/4263B
Resistance DC	Chroma 16502
Current per winding that causes a 20°C rise from 25°C ambient	
Electrical specifications at 25°C	

Weight 495 – 521 mg.

Packaging 1500/13 # reel; Plastic tape: 24 mm wide.

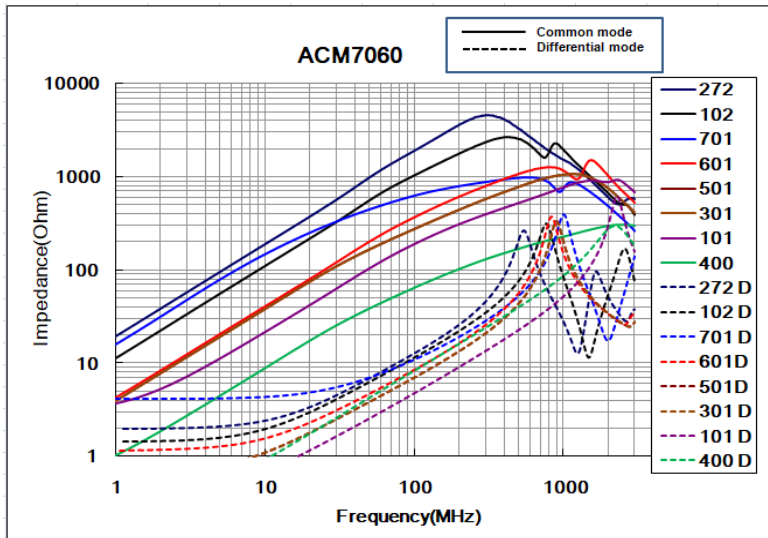
Packaging will different, according the various chip size. □

Contact Us	
US	sales-us@bing-ri.com.tw
Taiwan	sales-tw@bing-ri.com.tw
China	sales-cn@bing-ri.com.tw
Japan	sales-jp@bing-ri.com.tw

Official Website :
https://www.bing-ri.com.tw/

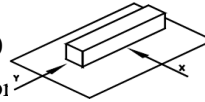
Typical Impedance vs Frequency

Common Mode & Differential mode



GENERAL CHARACTERISTICS

1. Operating temperature range: -40 TO $+125^{\circ}\text{C}$ (Includes temperature when the coil is heated)
2. External appearance: On visual inspection, the coil has no external defects.
3. Terminal strength: After soldering. Between copper plate and terminals of coil. Push in two directions of X.Y withstanding at below conditions.
Terminal should not peel off. (refer to figure at right) 0.98kg Min -7060
4. Insulating resistance: Over $100\text{M}\Omega$ at 100V D.C. between coil and coil
5. Dielectric strength: No dielectric breakdown at 100V D.C. for 1 minute between coil and core
6. Temperature characteristics: Inductance coefficient $(0\sim 2,000)\times 10^{-6}/(^{\circ}\text{C } -25\sim +80)$. $^{\circ}\text{C}$, inductance deviation within $\pm 5.0\%$, after 96 hours.
7. Humidity characteristics (Moisture Resistance): Inductance deviation within $\pm 5\%$, after 96 hours in $90\sim 95\%$ relative humidity at 40 ± 2 and 1 hour drying under normal condition.
8. Vibration resistance: Inductance deviation within $\pm 5\%$, after vibration for 1 hour. In each of three orientations at sweep vibration ($10\sim 55\sim 10$ Hz) with 1.5mm P-P amplitudes.
9. Shock resistance: Inductance deviation within $\pm 5\%$, after being dropped once with 981m/s^2 (100G) shock attitude upon a rubber block method shock testing machine, in three different
10. Resistance to Soldering Heat: 260, 10 seconds (See attached recommend reflow)
11. Storage environment: Storage condition: Temperature Range: $10 \sim 35$ (Generally: $21 \sim 31$), Humidity Range: $50\% \sim 80\% \text{ RH}$ (Generally: $65\% \sim 75\%$); Transportation condition: Temperature Range: $-35 \sim 85$, Humidity Range: $50\% \sim 95\% \text{ RH}$
12. Use components within 12 months. If 12 months or more have elapsed, check solderability before use.
13. Reflow profile recommend:



Lead-free heat endurance test

Lead-free the recommended reflow condition

