# SMD Common Mode Choke - 9070 (Power Line) 🔀 BINGRI TECH

### Features & Application

#### • 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 equipmen

Noise countermeasure for adapter lines and

battery lines orPCs 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)

#### $\star$ When ordering, please check part number

Part number	Impedance(Ω) @100MHz min. typ.	DC Resistance (mΩ) max	Rated Current (A) max.	MARK
ACM9070F301-6AT	225 300	6	6	301
ACM9070F501-5.5AT	450 600	8	5.5	501
ACM9070F701-5AT	500 700	10	5	701
ACM9070F102-4AT	750 1000	13	4	102
ACM9070F152-3AT	1200 1500	30	3	152
ACM9070F222-2.5AT	1700 2200	50	2.5	222
ACM9070F272-2AT	2000 2700	80	2	272
Isolation (Vrms) : 250V. Winding to winding isolation (hipot) tested for one minute.				

Isolation (Vrms) : 250V.



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 860 - 882 mg.

Packaging 700/13 // reel; Plastic tape: 24 mm wide. Packaging will different, accroding the various chip size.

	Dimensions (unit : mm)			
	А	$7.00{\pm}0.5$		
	В	$6.00{\pm}0.5$		
	С	4.8 max		
	D	5.70 typ		
	Е	1.50±0.2		
	F	$2.00{\pm}0.2$		
	G	1.70±0.2		
	Н	5.00 typ		
	Ι	6.0 typ		
	J	2.50 typ		
	K	4.00 typ		
Contact Us				
US	sales-us@bing-ri.com.tw			
Faiwan	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/				

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## **GENERAL CHARACTERISTICS**

1. Operating temperature range: -40 TO + 125°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.Ywithstanding at below conditions.

Terminal should not peel off. (refer to figure at right) 0.98kg Min -9070

4. Insulating resistance: Over 100M $\Omega$  at 100V D.C. between coil and cor

5. Dielectric strength: No dielectric breakdown at 100V D.C. for 1 minute between coil and core

6. Temperature characteristics: Inductance coefficient (0~2,000)x10-6/ (  $^\circ\!C$  -25~+80 ).  $^\circ\!C$  , inductance deviation within±5.0%, after 96 hours.

7. Humidity characteristics(Moisture Resistance): Inductance deviation within  $\pm 5\%$ , after 96 hours in 90~95% relative humidity at 40  $\pm 2$  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 (10~55~10 Hz) with 1.5mm P-P amplitudes.

9. Shock resistance: Inductance deviation within  $\pm 5\%$ , after being dropped once with 981m/s2 (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 ~ 35 (Generally: 21 ~ 31),

Humidity Range: 50% ~ 80% RH (Generally: 65% ~ 75%); Transportation condition:

Temperature Range:  $35 \sim 85$ , Humidity Range:  $50\% \sim 95\%$  RH

12. Use components within 12 months. If 12 months or more have elapsed, check soldarability before use. 13. Reflow profile recommend:

### Lead-free heat en duran ce test

# Lead-free the recommended reflow condition



