SMD Power Inductor NR - 8040-Series (Ferrite)



2020/1/1

Features & Application

- · Mounting on the surface of NR inductors has high power current sensing.
- · NR inductors are small in size and are miniaturized products,

but the chip inductors have high quality, huge storage capacity and low resistance characteristics

- · Surface mount high power inductors.
- · Reel packaging is available for automatic surface mounting.
- · It has the characteristics of high Q value and low impedance

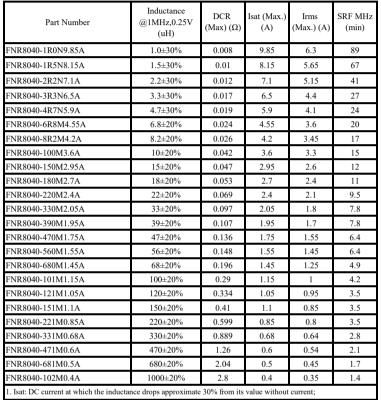
Low magnetic leakage, low direct resistance, high current resistance and a series of features.

It is widely used in notebook computers, desktop computers, servers, plug-ins,

TVs, smart homes, LED lighting, automotive products, wireless remote control systems,

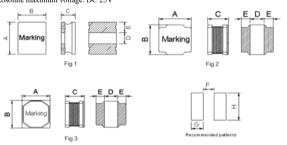
low-voltage power supply modules and other electronic equipment.

★ When ordering, please check part number



- 2. Irms: DC current that causes the temperature rise ($\triangle T = 40^{\circ}C$) from 25°C ambient;
- 3. Operating Temperature : -40°C $\sim \pm 125^{\circ}\!\text{C}$;





Dimensions		
A	8.00±0.30	
В	8.00±0.30	
C	4.20 max	
D	3.80±0.3	
Е	2.10±0.3	
F	3.60 typ	
G	2.20 typ	
Н	7.50 typ	
Fig 2		
unit : mm		

Impedance/Inductance/Q/

LCR Angilent E4991A

Resistance DC

Chroma 16502

Current per winding that causes a 20°C rise from 25°C ambient

Electrical specifications at 25°C

Weight 910 - 938 mg.

Packaging 1000/13 $^{\prime\prime}$ reel; Plastic tape: 16 mm wide. Packaging will different,accroding 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/	

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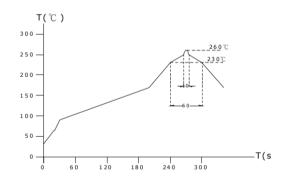
GENERAL CHARACTERISTICS

- 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.

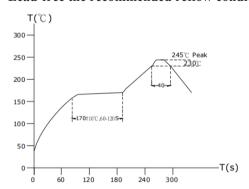
Terminal should not peel off. (refer to figure at right) 0.98kg Min -8040

- 4. Insulating resistance: Over $100M\Omega$ at 100V D.C. between coil and co
- 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 ± 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 ($10\sim55\sim10$ 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: $10\sim35$ (Generally: $21\sim31$), Humidity Range: $50\%\sim80\%$ RH (Generally: $65\%\sim75\%$); Transportation condition: Temperature Range: $-35\sim85$, Humidity Range: $50\%\sim95\%$ 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



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