SMD Power Inductor NR - 252010-Series (Alloy)



Features & Application

· Metallization on Alloy core results in excellent shock resistance and damage-free durability.

- · Closed magnetic circuit design reduces leakage flux and Electro Magnetic Interference (EMI).
- · Fe base metal material core provides large saturation current.
- · Automatic production ensures high quality and consistency.

Notebooks,desktop computers,servers,graphic cards

Blue -ray disc recorders, set top box , Automotive systems.

Portable gaming devices, personal navigation systems, personal multimedia devices

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

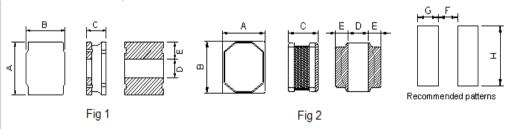
Moisture Sensitivity Level (MSL) 1 (unlimited floor life at $<30^{\circ}$ C /85% relative humidity)

85% relative humidity)

★ When ordering, please check part number

Part Number	Inductance @1MHz,0.25V (uH)	$\mathrm{DCR}(\Omega)$		Isat (Max.) (A)		Irms (Max.) (A)	
		Max.	Тур.	Max.	Тур.	Max.	Тур.
ANR252010-R33N4.8A	0.33±30%	0.039	0.033	4.80	5.50	3.50	4.05
ANR252010-R47N4.4A	0.47±30%	0.045	0.038	4.40	5.20	3.20	3.7
ANR252010-R68N3.2A	0.68±30%	0.059	0.049	3.20	3.60	2.75	3.20
ANR252010-1R0M3.1A	1.0±20%	0.076	0.063	3.10	3.50	2.50	2.90
ANR252010-1R5M2.6A	1.5±20%	0.106	0.088	2.60	3.00	2.00	2.30
ANR252010-2R2M1.9A	2.2±20%	0.155	0.129	1.90	2.20	1.50	1.80
ANR252012-3R3M1.6A	3.3±20%	0.235	0.196	1.60	1.80	1.20	1.40
ANR252010-4R7M1.3A	4.7±20%	0.276	0.230	1.30	1.50	1.10	1.30
ANR252010-100M0.9A	10±20%	0.500	0.435	0.90	1.00	0.80	0.90

- 1. Isat: DC current at which the inductance drops approximate 30% from its value without current;
- 2. Irms: DC current that causes the temperature rise ($\triangle T = 40$ °C) from 25°C ambient;
- 3. Operating Temperature : -40° C ~ $+125^{\circ}$ C;
- 4. Absolute maximum voltage: DC 25V



Dimensions				
A	2.50±0.3			
В	2.00±0.3			
C	1.05 max			
D	0.80 ± 0.2			
Е	0.80 ± 0.2			
F	0.60 typ			
G	1.00 typ			
Н	2.20 typ			
Fig 1				
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 22 - 30 mg

Packaging 2000/7 $\prime\prime$ reel; Plastic tape: 8 mm wide.

Packaging will different, accroding the various chip size.

Contact Us				
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https://www.bing-ri.com.tw/	

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2020/1/1

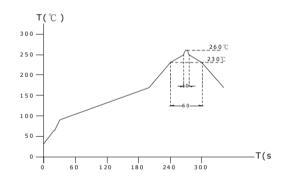
GENERAL CHARACTERISTICS

- 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.

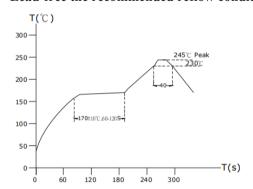
Terminal should not peel off. (refer to figure at right) 0.5kg Min -25201

- 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 $(0\sim2,000)$ x10-6/ ($^{\circ}$ C -25 \sim +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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