NRS Series

Wire Wound SMD Power Inductors

Size 3015

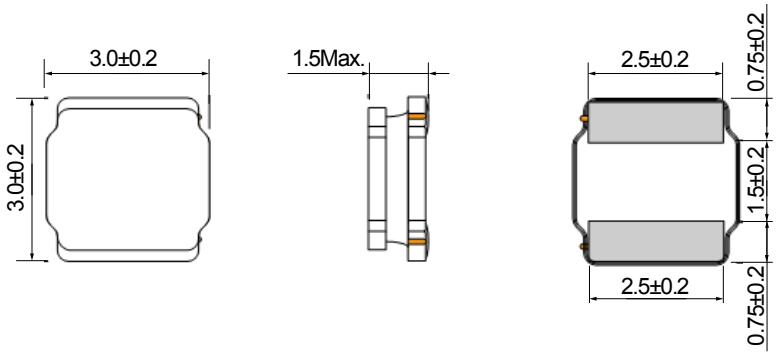
CHARACTERISTICS

- Magnetic-resin shielded construction reduces buzz noise to ultra-low levels
- Metallization on ferrite core results in excellent shock resistance and damage-free durability
- Closed magnetic circuit design reduces leakage flux and Electro Magnetic Interference (EMI)
- Takes up less PCB real estate and save more power
- 30% lower DCR than SWPA series and larger current

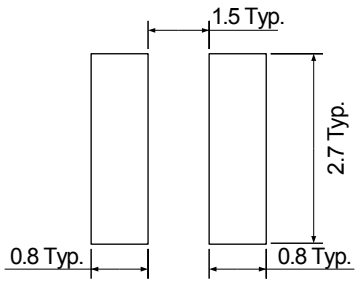
APPLICATION

- Smart phone
- Blue -ray disc recorders, set top box
- Notebooks, desktop computers, servers
- Portable gaming devices, personal navigation systems, personal multimedia devices

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@1MHz,1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	Ω		A		A	
Symbol	L	DCR		Isat		Irms	
NRS3015-R22M	0.22±20%	0.022	0.018	6.00	6.80	3.00	3.50
NRS3015-R24M	0.24±20%	0.022	0.018	5.50	5.50	3.00	3.50
NRS3015-R47M	0.47±20%	0.022	0.018	2.40	2.80	3.00	3.50
NRS3015-R55M	0.55±20%	0.019	0.016	2.40	2.70	3.05	3.55
NRS3015-1R0M	1.0±20%	0.040	0.033	2.70	3.00	2.20	2.50

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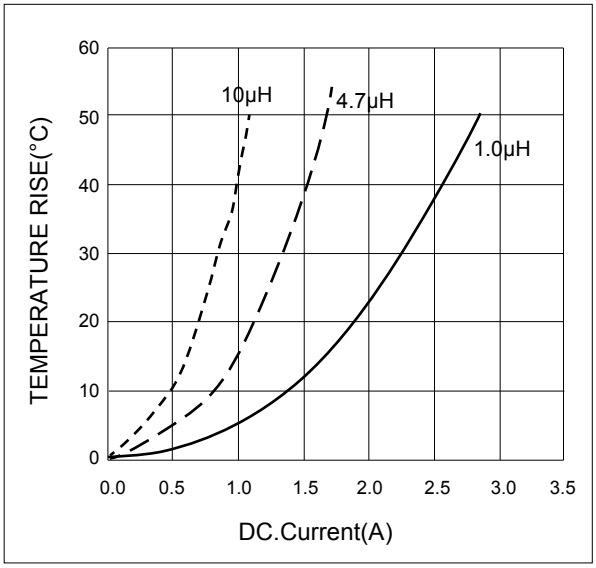
Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@1MHz,1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	Ω		A		A	
Symbol	L	DCR		Isat		Irms	
NRS3015-1R5M	1.5±20%	0.048	0.040	2.00	2.30	2.00	2.30
NRS3015-2R2M	2.2±20%	0.060	0.050	1.50	1.70	1.80	2.05
NRS3015-3R3M	3.3±20%	0.084	0.070	1.30	1.50	1.50	1.70
NRS3015-3R9M	3.9±20%	0.115	0.096	1.30	1.60	1.30	1.50
NRS3015-4R7M	4.7±20%	0.115	0.096	1.10	1.20	1.30	1.50
NRS3015-6R8M	6.8±20%	0.144	0.120	0.80	0.90	1.16	1.35
NRS3015-100M	10±20%	0.276	0.230	0.75	0.90	0.84	0.97
NRS3015-150M	15±20%	0.360	0.300	0.60	0.70	0.73	0.84
NRS3015-220M	22±20%	0.540	0.450	0.52	0.60	0.60	0.70
NRS3015-260M	26±20%	0.768	0.640	0.40	0.50	0.45	0.55
NRS3015-330M	33±20%	1.090	0.910	0.50	0.55	0.50	0.55
NRS3015-470M	47±20%	1.250	1.040	0.35	0.42	0.45	0.50

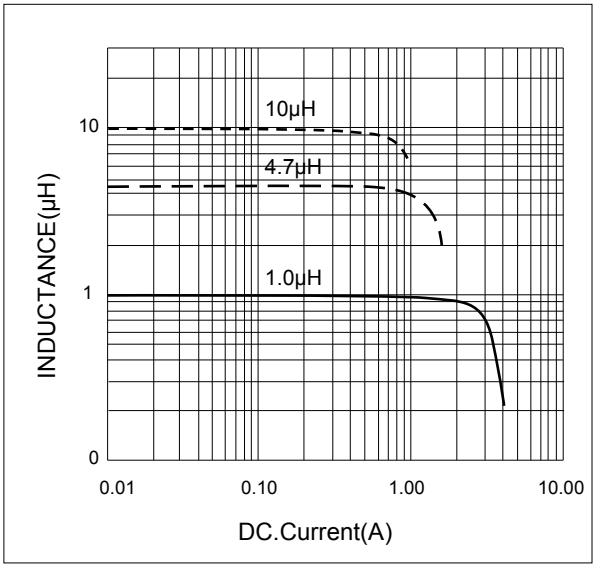
Operating temperature:-40°C～+125°C

Typical Electrical Characteristics:

Temperature vs. DC Current Characteristics:



Inductance vs. DC Current Characteristics:



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