

NRS Series

SMD Shielded Power Inductor

Size 201610



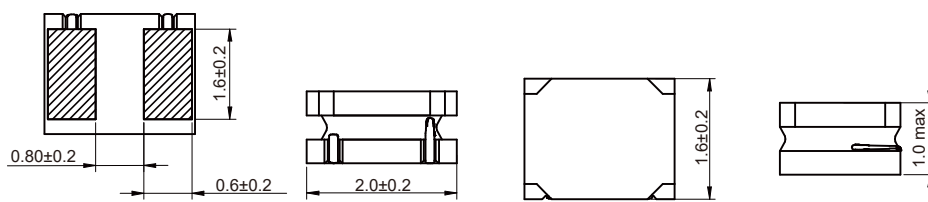
FEATURES

- Magnetic-resin shielded construction reduces buzz noise to ultra-low levels;
- Metallization on ferrite core results in excellent shock resistance and damage-free durability;
- Takes up less PCB real estate and save more power;

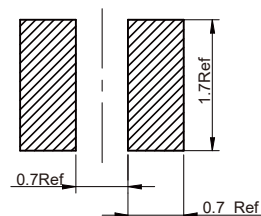
APPLICATIONS

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

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

Part Number	Inductance	DCR		Saturation Current		Temperature Rising Current	
	@1MHz, 1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	Ω		A		A	
Symbol	L	DCR		Isat		Ir	
NRS201610-R16M	0.16±20%	0.031	0.026	4.30	4.80	3.20	3.50
NRS201610-R24M	0.24±20%	0.040	0.033	3.70	4.10	2.90	3.20
NRS201610-R33M	0.33±20%	0.040	0.033	2.50	3.10	2.90	3.20
NRS201610-R47M	0.47±20%	0.059	0.049	2.30	2.85	2.35	2.60
NRS201610-R68M	0.68±20%	0.076	0.063	1.95	2.45	2.05	2.25
NRS201610-1R0M	1.0±20%	0.114	0.095	1.65	1.85	1.45	1.60
NRS201610-1R5M	1.5±20%	0.174	0.145	1.35	1.65	1.25	1.40
NRS201610-2R2M	2.2±20%	0.264	0.220	1.20	1.45	1.10	1.20
NRS201610-3R3M	3.3±20%	0.335	0.279	0.90	1.05	0.88	0.98
NRS201610-4R7M	4.7±20%	0.479	0.399	0.70	0.85	0.74	0.82
NRS201610-6R8M	6.8±20%	0.816	0.680	0.60	0.70	0.52	0.58
NRS201610-100M	10±20%	1.020	0.850	0.50	0.55	0.45	0.50

Operating Temperature : -40 C ~ +125 C

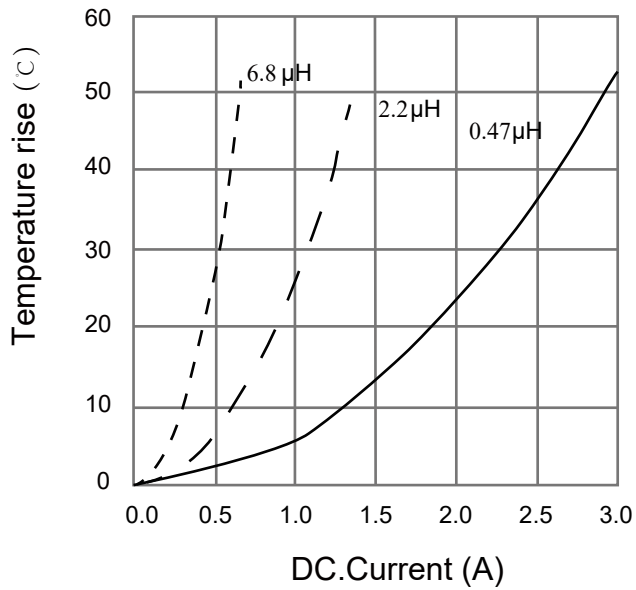
Tolerance code (M=±20%)

Temperature rising current will cause the coil temperature rise approximately Δt40 C

Saturation current will cause L to drop approximately 30% .

Typical Electrical Characteristics:

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics

