



All test data is referenced to 25 °C ambient.

Rated current(Isat or Irms, whichever is smaller).

Saturation current(Isat): the actual value of DC current when the inductance decrease approximately 30% of its initial value.

Temperature rise current(Irms): DC current that causes the temperature rise ( $\Delta T$ ) from 20 °C ambient. For Max. Value,  $\Delta T < 40$  °C; for Typ. Value,  $\Delta T$  is approximate 40 °C.

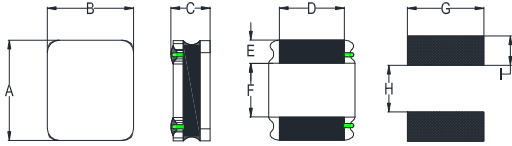
Operating temperature range: -40 °C ~ +125 °C (Including self-heating).

Storage temperature range: -40 °C ~ +125 °C

## Electrical Specifications@25°C

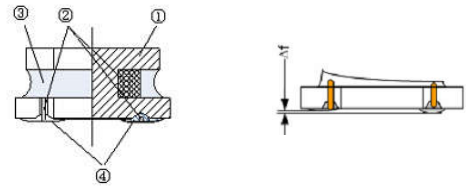
Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	1MHz/1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	uH	$\Omega$	$\Omega$	A	A	A	A
Symbol	L	DCR		Isat		Irms	
NRH252012SG-R24M H	0.24±20%	0.023	0.019	4.10	4.80	4.10	4.50
NRH252012SG-R33M H	0.33±20%	0.031	0.026	4.00	4.70	3.35	3.70
NRH252012SG-R47M H	0.47±20%	0.036	0.031	3.80	4.50	3.00	3.30
NRH252012SG-R56M H	0.56±20%	0.047	0.038	3.60	4.20	2.30	2.50
NRH252012SG-R68M H	0.68±20%	0.047	0.038	3.00	3.30	2.30	2.50
NRH252012SG-1R0M H	1.0±20%	0.060	0.050	2.25	2.50	2.30	2.60
NRH252012SG-1R2M H	1.2±20%	0.078	0.065	2.20	2.50	2.00	2.20
NRH252012SG-1R5M H	1.5±20%	0.090	0.075	2.00	2.35	1.80	2.00
NRH252012SG-1R8M H	1.8±20%	0.108	0.093	1.95	2.20	1.75	1.90
NRH252012SG-2R2M H	2.2±20%	0.108	0.093	1.75	1.90	1.75	1.90
NRH252012SG-2R7M H	2.7±20%	0.156	0.130	1.30	1.60	1.40	1.50
NRH252012SG-3R3M H	3.3±20%	0.156	0.130	1.20	1.35	1.40	1.50
NRH252012SG-4R7M H	4.7±20%	0.228	0.190	1.10	1.20	1.10	1.20
NRH252012SG-5R6M H	5.6±20%	0.330	0.255	1.00	1.10	1.00	1.15
NRH252012SG-6R8M H	6.8±20%	0.360	0.300	0.90	1.10	0.95	1.05
NRH252012SG-8R2M H	8.2±20%	0.520	0.390	0.86	1.00	0.70	0.80
NRH252012SG-100M H	10±20%	0.522	0.435	0.70	0.85	0.78	0.86
NRH252012SG-120M H	12±20%	0.750	0.600	0.65	0.80	0.65	0.78
NRH252012SG-150M H	15±20%	1.000	0.700	0.60	0.70	0.50	0.60
NRH252012SG-220M H	22±20%	1.290	1.000	0.45	0.55	0.48	0.55
NRH252012SG-330M H	33±20%	2.100	1.550	0.35	0.40	0.40	0.45

## MECHANICAL



A	B	C	D	E	F	G	H	I
2.5 ± 0.2	2.0 +0.3/-0.1	1.25Max	1.5 ± 0.2	0.8 ± 0.2	0.8 ± 0.2	2.0Ref	0.8 Ref	0.85 Ref

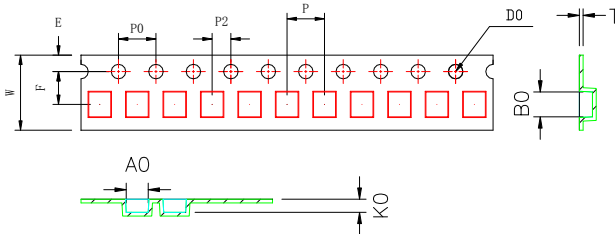
## STRUCTURE



NO.	Components	Material
①	Core	Ni-Zn Ferrite
②	Wire	Polyurethane system enameled copper wire
③	Magnetic Glue	Epoxy resin and magnetic powder
④	Electrodes	AgNiSn or FeNiCu + Sn Alloy

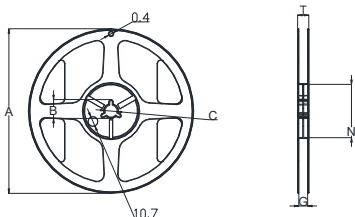
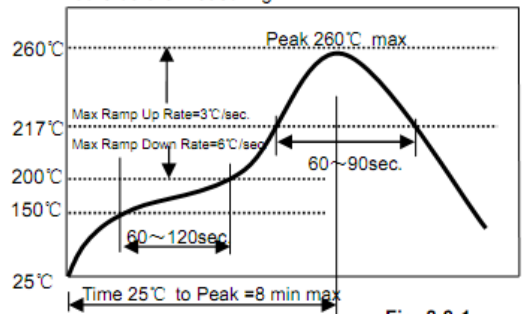
▲f: Clearance between terminal and the surface of plate must be 0.1mm max when coil is placed on a flat plate.

## TAPING AND PACKING



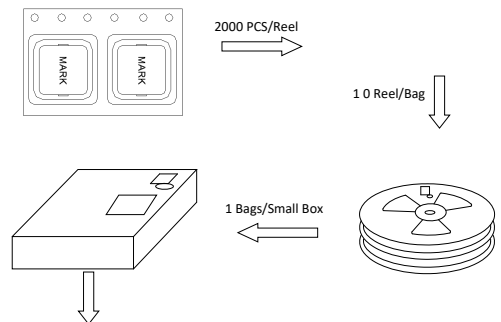
ITEM	W	AO	B0	K0	P	F	E	D0	P0	P2	T
DIM	8.00	2.35	2.65	1.4	4.00	3.5	1.75	1.50	4.00	2.00	0.25
TOLE	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1	±0.1	±0.1	±0.05

## RESISTANCE TO SOLDERING HEAT



Type	A	B	C	G	N	T
8mm	178	20.7 ± 0.8	13 ± 0.4	9	60	10.8

Dimensions in mm



### Quantity (pcs):

2000 PCS PER REEL  
10 REELS PER CARTON  
20000PCS PER CARTON