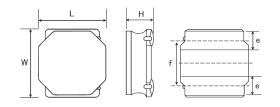
## Spec Sheet

# SMD Power Inductors (NR series) NR3012T6R8M



#### Features

- Item Summary

6.8uH±20%, 0.67A, 3.0x3.0x1.2mm

- Lifecycle Stage
- Mass Production
- Standard packaging quantity (minimum)
  Taping Embossed 2000pcs

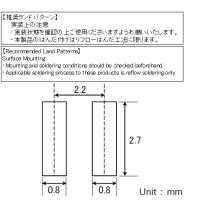
#### Products characteristics table

Inductance	6.8 uH ± 20 %
Case Size (mm)	3.0x3.0
Rated Current (max)	0.67 A
Saturation Current (max)	0.67 A
Temperature Rise Current (max)	0.74 A
DC Resistance (max)	0.228 Ω
DC Resistance (typ)	0.19 Ω
LQ Measuring Frequency	100 kHz
Self Resonant Frequency (min)	40 MHz
Operating Temp. Range	-25 to +120 ℃ (Including-self-generated heat)
Temperature characteristic (Inductance change)	± 20 %
RoHS2 Compliance (10 subst.)	Yes
REACH Compliance (173 subst.)	Yes
Halogen Free	Yes
Soldering	Reflow

#### External Dimensions

Dimension L	3.0 ±0.1 mm
Dimension W	3.0 ±0.1 mm
Dimension H	Max 1.2 mm
Dimension e	0.9 ±0.2 mm
Dimension f	1.9 ±0.2 mm

### Recommended Land Patterns

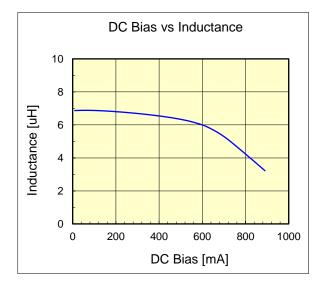


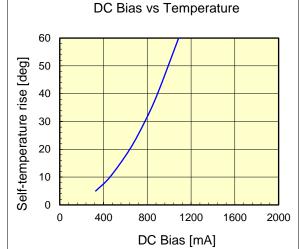
The data is reference only. Electrical characteristics vary depending on environment or measurement condition. TAIYO YUDEN reserves the right to make change to the Date at any time without notice. Before making final selection, please check product specification. 2017.04.30

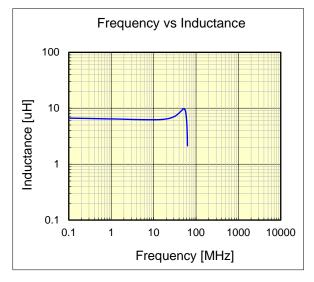
TAIYO YUDEN

# SMD Power Inductors (NR series)

	Dimension	unit : mm		unit : inch	
NR3012T6R8M	Length :	3.0 +/-0.1		(0.118 +/- 0.004)	
	Width :	3.0 +/-0.1		(0.118 +/- 0.004)	
	Height :	1.2	max.	( 0.047	max.)
	Inductance :	6.8	uН	( test freq at	0.1MHz)
	DC Resistance :	0.19	/ 0.228	ohm ( typ	/ max )
	Saturation Current :	670	mA ( max	()	
	Temp. rise Current :	740	mA ( max	()	
	Saturation current	typical: 3	0% reductio	n from initial L	. value.
	Temp rise Current typical : Temperature		will rise by 40 deg C		







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