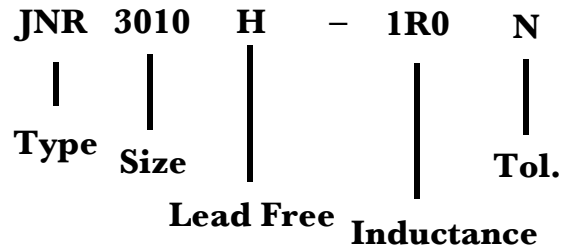




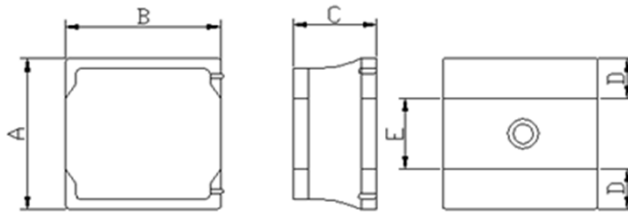
PRODUCT IDENTIFICATION



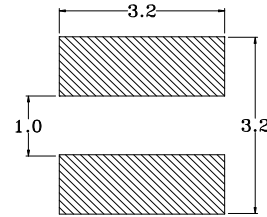
FEATURES

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

DIMENSIONS (mm)



Recommended PC Board Pattern



Part No.	Size (mm)				
	A	B	C	D	E
JNR 3010H	3.0 ± 0.2	3.0 ± 0.2	1.0 Max.	1.0 Ref.	1.0 Ref.

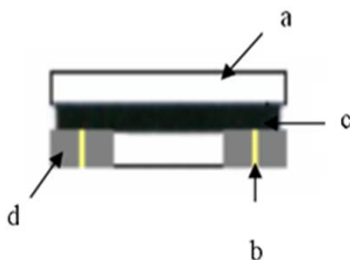
SERIES LIST

No.	Part No.	L (μ H)	Tol.	Test Frequency (Hz)	RDC (Ω) $\pm 20\%$	Isat (A) typ.	Irms (A) typ.
1	JNR 3010H-1R0N	1.0	$\pm 30\%$	1M / 0.1V	0.055	1.80	2.10
2	JNR 3010H-1R5N	1.5	$\pm 30\%$	1M / 0.1V	0.070	1.50	1.90
3	JNR 3010H-2R2M	2.2	$\pm 20\%$	1M / 0.1V	0.090	1.30	1.70
4	JNR 3010H-3R3M	3.3	$\pm 20\%$	1M / 0.1V	0.130	1.10	1.50
5	JNR 3010H-4R7M	4.7	$\pm 20\%$	1M / 0.1V	0.170	0.90	1.30
6	JNR 3010H-6R8M	6.8	$\pm 20\%$	1M / 0.1V	0.260	0.77	1.00
7	JNR 3010H-100M	10	$\pm 20\%$	1M / 0.1V	0.350	0.63	0.80
8	JNR 3010H-150M	15	$\pm 20\%$	1M / 0.1V	0.510	0.54	0.70
9	JNR 3010H-220M	22	$\pm 20\%$	1M / 0.1V	0.750	0.43	0.60

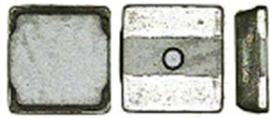
Note:

1. All test data referenced to 25°C ambient
2. Isat : Saturation Current (Isat) will cause L0 to drop approximately 30%.
3. Irms : Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40°C

Materials



No.	Description	Specification
a	Core	Ferrite Core
b	Wire	Enameled Copper Wire
c	Glue	Epoxy with magnetic powder
d	Terminal	Ag/Ni/Sn



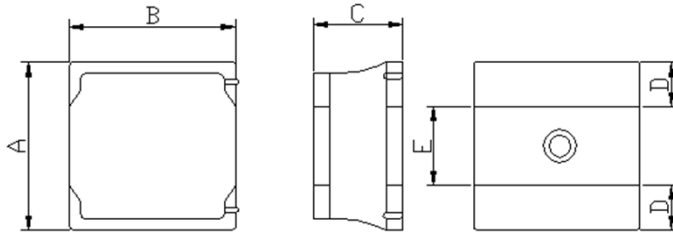
PRODUCT IDENTIFICATION

JNR **3012H** - **2R2**
 | | |
Type **Size** **Inductance**

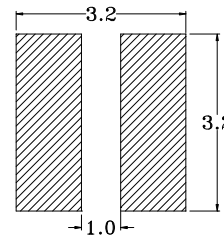
FEATURES

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

DIMENSIONS (mm)



Recommended PC Board Pattern



Part No.	Size (mm)				
	A	B	C	D	E
JNR 3012H	3.0 ± 0.2	3.2 ± 0.2	1.2 Max.	1.0 Ref.	1.0 Ref.

SERIES LIST

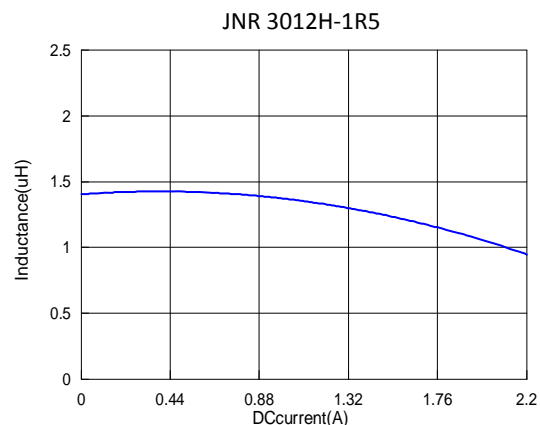
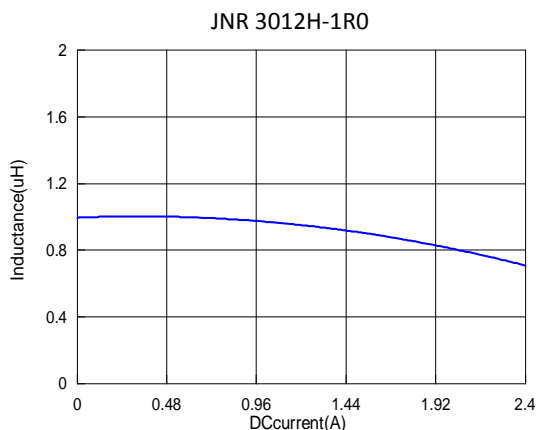
No.	Part No.	L (μH)	Test Frequency (Hz)	RDC (Ω) ±20%	I sat (A) Typ.	I rms (A) Typ.
1	JNR 3012H-1R0N	1.0 ± 30%	1M / 0.1V	0.042	2.15	2.00
2	JNR 3012H-1R5N	1.5 ± 30%	1M / 0.1V	0.056	1.70	1.85
3	JNR 3012H-2R2M	2.2 ± 20%	1M / 0.1V	0.080	1.50	1.70
4	JNR 3012H-3R3M	3.3 ± 20%	1M / 0.1V	0.100	1.20	1.55
5	JNR 3012H-4R7M	4.7 ± 20%	1M / 0.1V	0.130	1.05	1.30
6	JNR 3012H-6R8M	6.8 ± 20%	1M / 0.1V	0.180	0.90	1.05
7	JNR 3012H-100M	10 ± 20%	1M / 0.1V	0.245	0.76	0.89
8	JNR 3012H-150M	15 ± 20%	1M / 0.1V	0.386	0.62	0.74
9	JNR 3012H-220M	22 ± 20%	1M / 0.1V	0.580	0.49	0.61

Note:

Isat : Based on inductance change ($\Delta L/L0 : \leq -30\%$) @ ambient temp. 25°C

Irms : Based on temperature rise ($\Delta T : 40^\circ C$.) Max

Typical Performance Curves





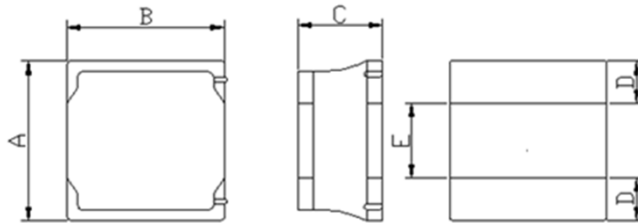
PRODUCT IDENTIFICATION

JNR 3015 H - 2R2 M
 | | | | |
Type Size Lead Free Inductance Tol.

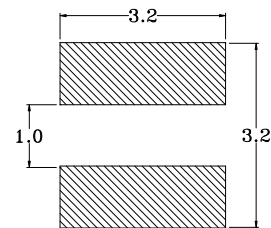
FEATURES

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. Operating temperature :-40~+125°C
(Including self - temperature rise)

DIMENSIONS (mm)



Recommended PC Board Pattern



Part No.	Size (mm)				
	A	B	C	D	E
JNR 3015H	3.0 ± 0.2	3.0 ± 0.2	1.5 Max.	1.0 Ref.	1.0 Ref.

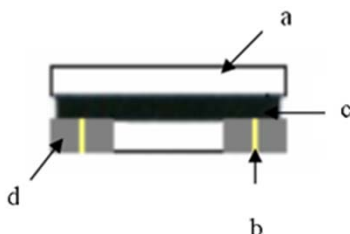
SERIES LIST

No.	Part No.	L (μH)	Tol.	Test Freq. (Hz)	RDC (Ω) ±20%	SRF (MHz) min.	Isat (A)		Irms (A)	
							typ.	max.	typ.	max.
1	JNR 3015H-1R0N	1.0	±30%	100K/1V	0.03	100	2.20	2.00	2.20	2.00
2	JNR 3015H-1R5N	1.5	±30%	100K/1V	0.04	87	2.00	1.80	2.00	1.80
3	JNR 3015H-2R2M	2.2	±20%	100K/1V	0.06	64	1.70	1.50	1.70	1.50
4	JNR 3015H-3R3M	3.3	±20%	100K/1V	0.08	49	1.40	1.20	1.40	1.20
5	JNR 3015H-4R7M	4.7	±20%	100K/1V	0.12	40	1.20	1.00	1.20	1.00
6	JNR 3015H-6R8M	6.8	±20%	100K/1V	0.16	36	1.00	0.90	1.00	0.90
7	JNR 3015H-100M	10	±20%	100K/1V	0.22	28	0.75	0.65	0.80	0.70
8	JNR 3015H-150M	15	±20%	100K/1V	0.32	23	0.65	0.55	0.70	0.60
9	JNR 3015H-220M	22	±20%	100K/1V	0.46	20	0.55	0.45	0.60	0.50
10	JNR 3015H-330M	33	±20%	100K/1V	0.80	18	0.40	0.35	0.45	0.40
11	JNR 3015H-470M	47	±20%	100K/1V	1.20	17	0.35	0.30	0.40	0.35

Note:

1. All test data referenced to 25°C ambient
2. Isat : Saturation Current (Isat) will cause L0 to drop approximately 30%.
3. Irms : Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40°C

Materials



No.	Description	Specification
a	Core	Ferrite Core
b	Wire	Enameled Copper Wire
c	Glue	Epoxy with magnetic powder
d	Terminal	Ag/Ni/Sn



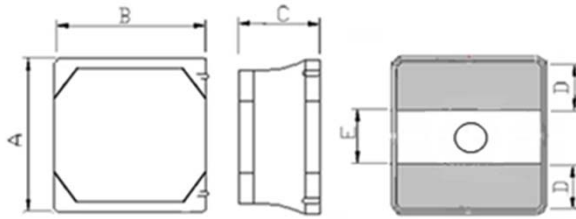
FEATURES

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

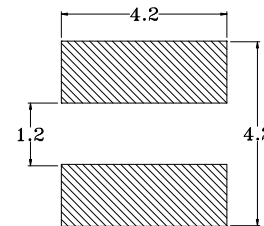
PRODUCT IDENTIFICATION

JNR 4010 H - 2R2 M
 | | | | |
Type **Size** **Lead Free** **Inductance** **Tol.**

DIMENSIONS (mm)



Recommended PC Board Pattern



Part No.	Size (mm)				
	A	B	C	D	E
JNR 4010H	4.0 ± 0.2	4.0 ± 0.2	1.0 Max.	1.2 Ref.	1.6 Ref.

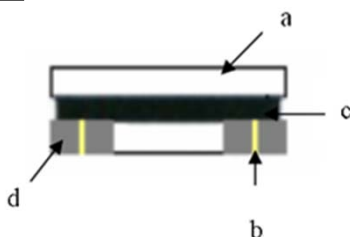
SERIES LIST

No.	Part No.	L (μ H)	Tol.	Test Freq. (Hz)	RDC (Ω) $\pm 20\%$	SRF (MHz) typ.	Isat (A)		Irms (A)	
							typ.	max.	typ.	max.
1	JNR 4010H-1R0N	1.0	$\pm 30\%$	100K/1V	0.056	116	2.40	2.00	2.30	1.90
2	JNR 4010H-2R2M	2.2	$\pm 20\%$	100K/1V	0.085	73	1.50	1.20	1.80	1.50
3	JNR 4010H-3R3M	3.3	$\pm 20\%$	100K/1V	0.100	58	1.30	1.10	1.70	1.40
4	JNR 4010H-4R7M	4.7	$\pm 20\%$	100K/1V	0.140	47	1.20	0.95	1.50	1.20
5	JNR 4010H-6R8M	6.8	$\pm 20\%$	100K/1V	0.200	38	1.00	0.80	1.20	1.00
6	JNR 4010H-100M	10	$\pm 20\%$	100K/1V	0.300	31	0.80	0.62	0.90	0.75
7	JNR 4010H-150M	15	$\pm 20\%$	100K/1V	0.430	24	0.70	0.54	0.80	0.60
8	JNR 4010H-220M	22	$\pm 20\%$	100K/1V	0.570	19	0.60	0.45	0.80	0.50

Note:

1. All test data referenced to 25°C ambient
2. Isat : Based on inductance change ($\Delta L/L_0 : \leq 30\%$)
3. Irms : Based on temperature rise ($\Delta T : 40^\circ\text{C}$ typ.) max

Materials



No.	Description	Specification
a	Core	Ferrite Core
b	Wire	Enameled Copper Wire
c	Glue	Epoxy with magnetic powder
d	Terminal	Ag/Ni/Sn



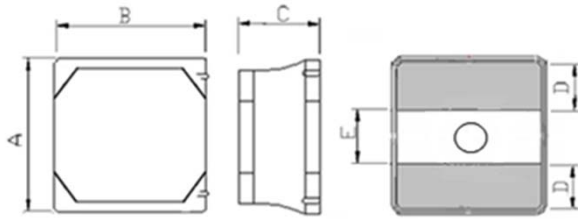
FEATURES

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

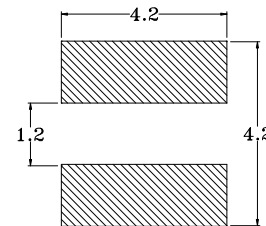
PRODUCT IDENTIFICATION

JNR 4012 H - 2R2 M
 | | | | |
Type **Size** **Lead Free** **Inductance** **Tol.**

DIMENSIONS (mm)



Recommended PC Board Pattern



Part No.	Size (mm)				
	A	B	C	D	E
JNR 4012H	4.0 ± 0.2	4.0 ± 0.2	1.2 Max.	1.2 Ref.	1.6 Ref.

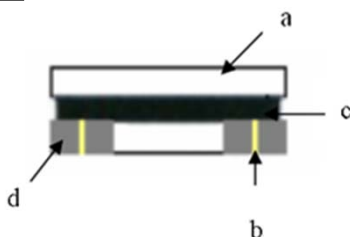
SERIES LIST

No.	Part No.	L (μ H)	Tol.	Test Freq. (Hz)	RDC (Ω) $\pm 20\%$	SRF (MHz) typ.	Isat (A)		Irms (A)	
							typ.	max.	typ.	max.
1	JNR 4012H-1R0N	1.0	$\pm 30\%$	100K/1V	0.042	100	3.30	2.80	2.50	2.20
2	JNR 4012H-2R2M	2.2	$\pm 20\%$	100K/1V	0.060	70	1.95	1.65	2.20	1.90
3	JNR 4012H-3R3M	3.3	$\pm 20\%$	100K/1V	0.070	60	1.60	1.40	1.90	1.70
4	JNR 4012H-4R7M	4.7	$\pm 20\%$	100K/1V	0.095	45	1.40	1.20	1.70	1.50
5	JNR 4012H-6R8M	6.8	$\pm 20\%$	100K/1V	0.125	35	1.10	0.90	1.50	1.30
6	JNR 4012H-100M	10	$\pm 20\%$	100K/1V	0.180	30	1.00	0.80	1.30	1.10
7	JNR 4012H-150M	15	$\pm 20\%$	100K/1V	0.260	24	0.80	0.65	0.95	0.75
8	JNR 4012H-220M	22	$\pm 20\%$	100K/1V	0.400	18	0.60	0.50	0.72	0.62

Note:

1. All test data referenced to 25°C ambient
2. Isat : Based on inductance change ($\Delta L/L_0 : \leq 30\%$)
3. Irms : Based on temperature rise ($\Delta T : 40^\circ\text{C typ.}$) max

Materials



No.	Description	Specification
a	Core	Ferrite Core
b	Wire	Enameled Copper Wire
c	Glue	Epoxy with magnetic powder
d	Terminal	Ag/Ni/Sn



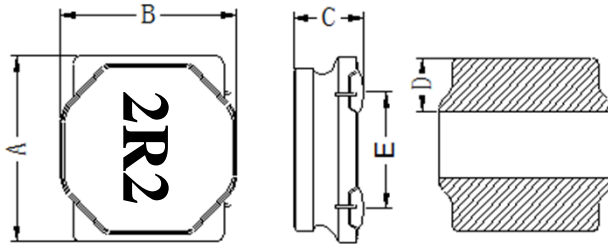
PRODUCT IDENTIFICATION

JNR **4018H** - **2R2**
 | | |
Type **Size** **Inductance**

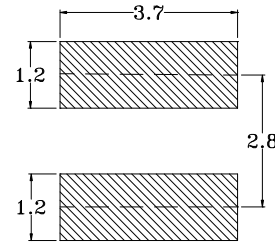
FEATURES

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

DIMENSIONS (mm)



Recommended PC Board Pattern



Part No.	Size (mm)				
	A	B	C	D	E
JNR 4018H	4.0 ± 0.2	4.0 ± 0.2	1.8 Max.	1.1 ± 0.2	2.5 ± 0.2

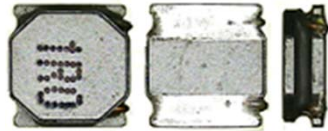
SERIES LIST

No.	Part No.	L (μ H)	Test Frequency (Hz)	SRF Min. (MHz)	RDC $\pm 20\%$ (Ω)	Isat (A)	Irms (A)
1	JNR 4018H-1R0N	1.0	100K/1V	90	0.027	4.00	3.20
2	JNR 4018H-1R5N	1.5	100K/1V	75	0.037	3.30	2.40
3	JNR 4018H-2R2M	2.2	100K/1V	60	0.042	3.00	2.20
4	JNR 4018H-3R3M	3.3	100K/1V	45	0.055	2.30	2.00
5	JNR 4018H-4R7M	4.7	100K/1V	35	0.070	2.00	1.70
6	JNR 4018H-6R8M	6.8	100K/1V	30	0.098	1.60	1.45
7	JNR 4018H-100M	10	100K/1V	25	0.150	1.30	1.20
8	JNR 4018H-150M	15	100K/1V	18	0.210	1.10	0.85
9	JNR 4018H-220M	22	100K/1V	15	0.290	0.90	0.72
10	JNR 4018H-330M	33	100K/1V	12	0.460	0.70	0.55
11	JNR 4018H-470M	47	100K/1V	10	0.650	0.60	0.44
12	JNR 4018H-680M	68	100K/1V	8.3	1.00	0.50	0.32
13	JNR 4018H-101M	100	100K/1V	6.5	1.45	0.42	0.28
14	JNR 4018H-151M	150	100K/1V	5.5	2.30	0.34	0.22
15	JNR 4018H-221M	220	100K/1V	4.0	3.80	0.275	0.17

Note:

Isat : Based on inductance change ($\Delta L/L0 : \leq -30\%$) @ ambient temp. 25°C

Irms : Based on temperature rise ($\Delta T : 40^\circ\text{C}$ typ.)



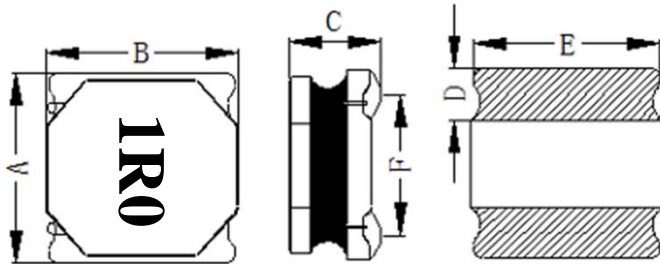
PRODUCT IDENTIFICATION

JNR **5020H** **- 1R0**
 | | |
Type **Size** **Inductance**

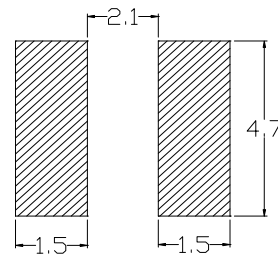
FEATURES

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

DIMENSIONS (mm)



Recommended PC Board Pattern



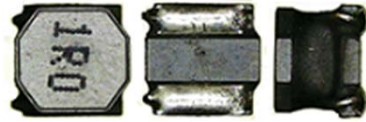
Part No.	Size (mm)					
	A	B	C	D	E	F
JNR 5020H	5.0 ± 0.2	5.0 ± 0.2	1.8 ± 0.2	1.3 ± 0.2	4.7 ± 0.2	3.7 Ref.

SERIES LIST

No.	Part No.	L (μH)	Test Frequency (Hz)	RDC (mΩ) ±20%	I sat (A)	I rms (A)
1	JNR 5020H-1R0N	1.0 ± 30%	100 K / 1V	20	5.00	4.10
2	JNR 5020H-1R2N	1.2 ± 30%	100 K / 1V	20	4.80	3.80
3	JNR 5020H-1R5N	1.5 ± 30%	100 K / 1V	25	4.50	3.50
4	JNR 5020H-2R2N	2.2 ± 30%	100 K / 1V	32	4.10	3.30
5	JNR 5020H-2R7M	2.7 ± 20%	100 K / 1V	38	3.80	3.00
6	JNR 5020H-3R3M	3.3 ± 20%	100 K / 1V	43	3.50	2.80
7	JNR 5020H-4R7M	4.7 ± 20%	100 K / 1V	60	2.70	2.40
8	JNR 5020H-5R6M	5.6 ± 20%	100 K / 1V	69	2.40	2.10
9	JNR 5020H-6R8M	6.8 ± 20%	100 K / 1V	90	2.10	1.90
10	JNR 5020H-8R2M	8.2 ± 20%	100 K / 1V	98	1.90	1.75
11	JNR 5020H-100M	10 ± 20%	100 K / 1V	110	1.70	1.60
12	JNR 5020H-120M	12 ± 20%	100 K / 1V	135	1.40	1.40
13	JNR 5020H-150M	15 ± 20%	100 K / 1V	165	1.30	1.25
14	JNR 5020H-180M	18 ± 20%	100 K / 1V	190	1.20	1.17
15	JNR 5020H-220M	22 ± 20%	100 K / 1V	225	1.10	1.10
16	JNR 5020H-330M	33 ± 20%	100 K / 1V	335	0.80	0.80
17	JNR 5020H-470M	47 ± 20%	100 K / 1V	460	0.70	0.70

Note:

1. All test data referenced to 25°C ambient
2. Saturation Current (Isat) will cause L0 to drop approximately 30%
3. Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40°C
4. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions.
Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.



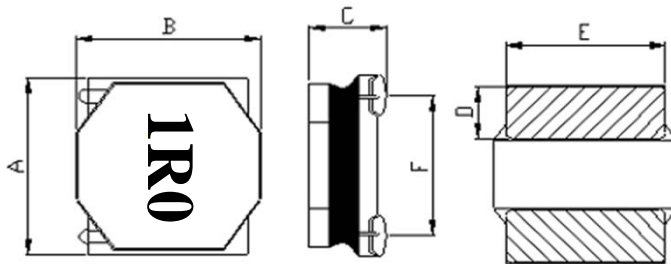
PRODUCT IDENTIFICATION

JNR **5040H** - **1R0**
Type **Size** **Inductance**

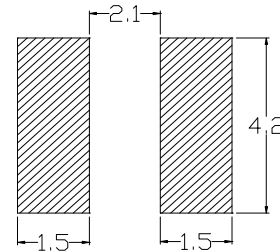
FEATURES

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

DIMENSIONS (mm)



Recommended PC Board Pattern



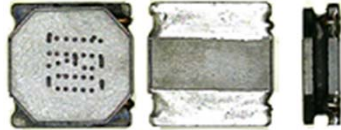
Part No.	Inductance	Size (mm)					
		A	B	C	D	E	F
JNR 5040H	≤ 10 uH	4.95±0.2	4.95±0.2	3.9±0.2	1.3±0.3	4.2±0.2	3.7 Ref.
	> 10 uH			3.8±0.2			

SERIES LIST

No.	Part No.	L (µH)	Test Frequency (Hz)	RDC (mΩ) ±20%	I sat (A)	I rms (A)
1	JNR 5040H-1R0N	1.0 ± 30%	100 K / 1V	12	7.50	5.00
2	JNR 5040H-1R5N	1.5 ± 30%	100 K / 1V	15	6.50	4.50
3	JNR 5040H-2R2N	2.2 ± 30%	100 K / 1V	21	5.70	3.80
4	JNR 5040H-3R3M	3.3 ± 20%	100 K / 1V	24	4.40	3.50
5	JNR 5040H-4R7M	4.7 ± 20%	100 K / 1V	32	3.90	3.20
6	JNR 5040H-6R8M	6.8 ± 20%	100 K / 1V	43	3.30	2.50
7	JNR 5040H-100M	10 ± 20%	100 K / 1V	56	2.52	2.20
8	JNR 5040H-150M	15 ± 20%	100 K / 1V	80	2.00	1.80
9	JNR 5040H-220M	22 ± 20%	100 K / 1V	123	1.62	1.50
10	JNR 5040H-330M	33 ± 20%	100 K / 1V	180	1.30	1.20
11	JNR 5040H-470M	47 ± 20%	100 K / 1V	270	1.10	1.00
12	JNR 5040H-680M	68 ± 20%	100 K / 1V	400	0.90	0.80
13	JNR 5040H-101M	100 ± 20%	100 K / 1V	560	0.75	0.72

Note:

1. All test data referenced to 25°C ambient
2. Saturation Current (I_{sat}) will cause L0 to drop approximately 30%
3. Heat Rated Current (I_{rms}) will cause the coil temperature rise approximately ΔT of 40°C
4. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions.
Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.



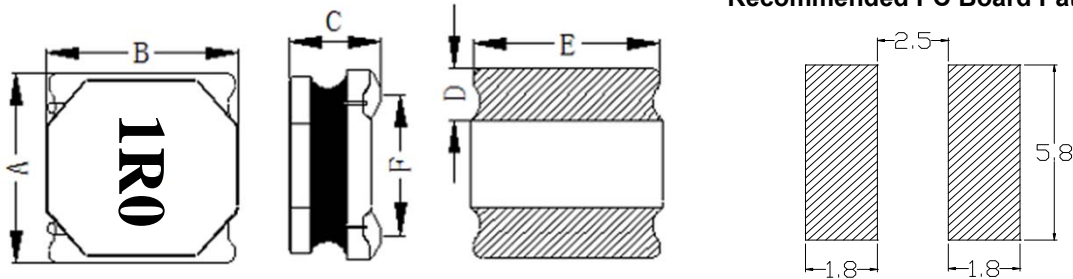
PRODUCT IDENTIFICATION

JNR **6020H** - **1R0**
 | | |
Type **Size** **Inductance**

FEATURES

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

DIMENSIONS (mm)



Part No.	Size (mm)					
	A	B	C	D	E	F
JNR 6020H	6.0 ± 0.2	6.0 ± 0.2	1.8 ± 0.2	1.6 ± 0.3	5.8 ± 0.3	4.3 Ref.

SERIES LIST

No.	Part No.	L (μH)	Test Frequency (Hz)	RDC (mΩ) ±20%	I sat (A)	I rms (A)
1	JNR 6020H-1R0M	1.0 ± 20%	100 K / 1V	19	6.2	4.5
2	JNR 6020H-1R5M	1.5 ± 20%	100 K / 1V	22.5	5.5	3.8
3	JNR 6020H-2R0M	2.0 ± 20%	100 K / 1V	25	5.3	3.65
4	JNR 6020H-2R2M	2.2 ± 20%	100 K / 1V	29	5.0	3.5
5	JNR 6020H-3R3M	3.3 ± 20%	100 K / 1V	35	4.0	3.3
6	JNR 6020H-4R7M	4.7 ± 20%	100 K / 1V	54	3.0	2.8
7	JNR 6020H-5R6M	5.6 ± 20%	100 K / 1V	59	2.7	2.6
8	JNR 6020H-6R8M	6.8 ± 20%	100 K / 1V	78	2.6	2.5
9	JNR 6020H-8R2M	8.2 ± 20%	100 K / 1V	103	2.4	2.3
10	JNR 6020H-100M	10 ± 20%	100 K / 1V	106	2.1	2.1
11	JNR 6020H-150M	15 ± 20%	100 K / 1V	138	1.5	1.6
12	JNR 6020H-220M	22 ± 20%	100 K / 1V	204	1.3	1.4

Note:

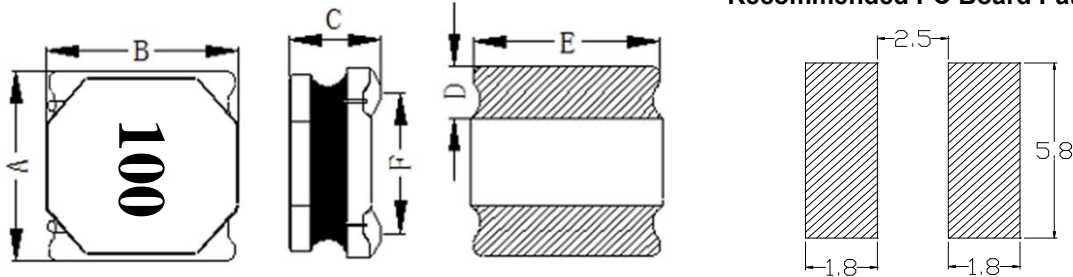
1. All test data referenced to 25°C ambient
2. Saturation Current (Isat) will cause L0 to drop approximately 30%
3. Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40°C
4. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions.
Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

**PRODUCT IDENTIFICATION**

JNR **6028H** - **100**
 | | |
Type **Size** **Inductance**

FEATURES

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

DIMENSIONS (mm)

Recommended PC Board Pattern

Part No.	Size (mm)					
	A	B	C	D	E	F
JNR 6028H	6.0 ± 0.2	6.0 ± 0.2	2.6 ± 0.2	1.6 ± 0.3	5.8 ± 0.3	4.3 Ref.

SERIES LIST

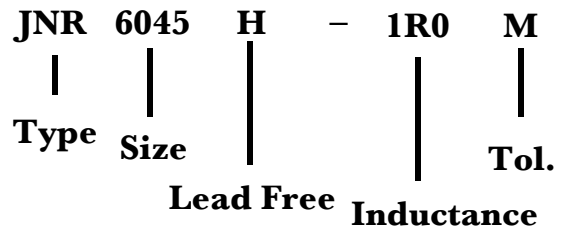
No.	Part No.	L (μH)	Test Frequency (Hz)	RDC (mΩ) ±20%	I sat (A)	I rms (A)
1	JNR 6028H-1R0N	1.0 ± 30%	100 K / 1V	10	5.75	5.20
2	JNR 6028H-1R5N	1.5 ± 30%	100 K / 1V	14	5.30	4.95
3	JNR 6028H-2R2M	2.2 ± 20%	100 K / 1V	18	5.00	4.50
4	JNR 6028H-3R3M	3.3 ± 20%	100 K / 1V	24	4.30	3.60
5	JNR 6028H-4R7M	4.7 ± 20%	100 K / 1V	30	3.20	3.10
6	JNR 6028H-6R8M	6.8 ± 20%	100 K / 1V	47	2.85	2.50
7	JNR 6028H-100M	10 ± 20%	100 K / 1V	65	2.10	2.00
8	JNR 6028H-150M	15 ± 20%	100 K / 1V	98	2.00	1.80
9	JNR 6028H-220M	22 ± 20%	100 K / 1V	138	1.60	1.50
10	JNR 6028H-330M	33 ± 20%	100 K / 1V	200	1.40	1.30
11	JNR 6028H-470M	47 ± 20%	100 K / 1V	280	1.15	1.06
12	JNR 6028H-680M	68 ± 20%	100 K / 1V	420	1.00	0.81
13	JNR 6028H-101M	100 ± 20%	100 K / 1V	605	0.80	0.72

Note:

1. All test data referenced to 25°C ambient
2. Saturation Current (Isat) will cause L0 to drop approximately 30%
3. Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40°C
4. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions.
Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.



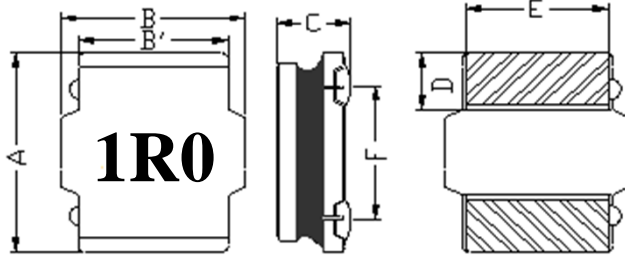
PRODUCT IDENTIFICATION



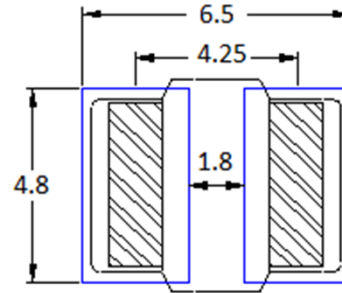
FEATURES

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

DIMENSIONS (mm)



Recommended PC Board Pattern



Part No.	Size (mm)						
	A	B	B'	C	D	E	F
JNR 6045H	6.0 ± 0.3	6.0 ± 0.4	4.8 ± 0.2	4.2 ± 0.3	1.7 ± 0.3	4.5 ± 0.3	4.25 ± 0.3

SERIES LIST

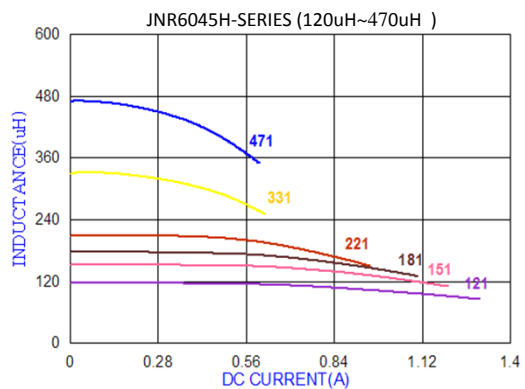
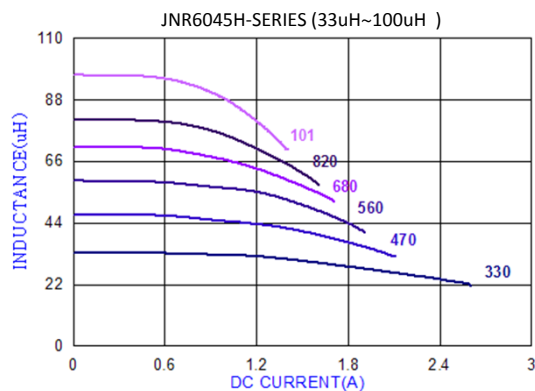
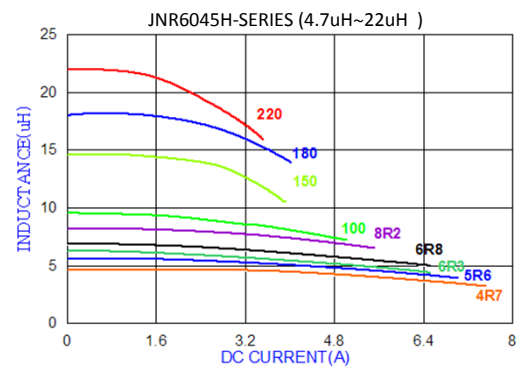
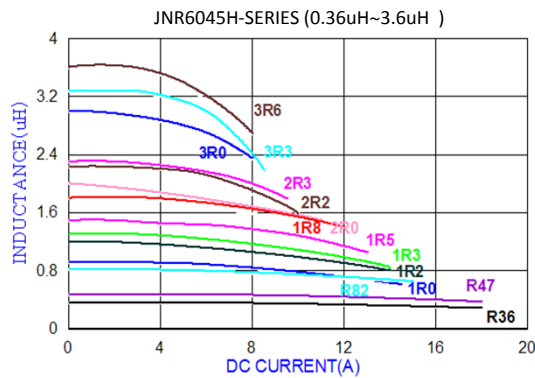
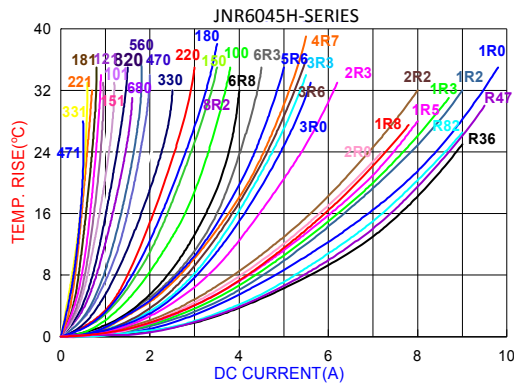
No.	Part No.	L (μH)	TOL. ± (%)	Test Freq.(Hz)	RDC (mΩ) ±20%	I sat (A)		I rms (A)	
						Max.	Typ.	Max.	Typ.
1	JNR 6045H-R36	0.36	M,N	1M / 1V	4.8	16.50	18.00	8.50	9.00
2	JNR 6045H-R47	0.47	M,N	1M / 1V	6.8	16.00	17.00	8.00	8.60
3	JNR 6045H-R82	0.82	M,N	1M / 1V	8.5	13.50	14.50	7.50	8.20
4	JNR 6045H-1R0	1.0	M,N	1M / 1V	10.0	12.50	13.50	7.30	8.00
5	JNR 6045H-1R2	1.2	M,N	1M / 1V	10.5	11.50	12.50	7.00	7.50
6	JNR 6045H-1R3	1.3	M,N	1M / 1V	10.5	11.50	12.50	7.00	7.50
7	JNR 6045H-1R5	1.5	M,N	1M / 1V	11.7	11.00	12.00	6.60	7.00
8	JNR 6045H-1R8	1.8	M,N	1M / 1V	12.0	10.00	11.00	6.20	6.80
9	JNR 6045H-2R0	2.0	M,N	1M / 1V	13.5	9.50	10.50	5.80	6.50
10	JNR 6045H-2R2	2.2	M,N	1M / 1V	15.0	8.55	9.50	5.30	6.00
11	JNR 6045H-2R3	2.3	M,N	1M / 1V	16.0	8.20	9.30	5.00	5.80
12	JNR 6045H-3R0	3.0	M,N	1M / 1V	20.0	7.50	8.00	4.60	5.20
13	JNR 6045H-3R3	3.3	M,N	1M / 1V	21.0	7.30	7.80	4.50	5.00
14	JNR 6045H-3R6	3.6	M,N	1M / 1V	22.5	6.90	7.40	4.30	4.90
15	JNR 6045H-4R7	4.7	M,N	1M / 1V	26.0	6.20	6.80	4.00	4.50
16	JNR 6045H-5R6	5.6	M,N	1M / 1V	31.0	5.70	6.40	3.70	4.10
17	JNR 6045H-6R3	6.3	M,N	1M / 1V	33.0	5.30	5.90	3.50	3.80
18	JNR 6045H-6R8	6.8	M,N	1M / 1V	34.0	5.15	5.70	3.30	3.60
19	JNR 6045H-8R2	8.2	M,N	1M / 1V	46.0	4.50	5.10	2.90	3.40
20	JNR 6045H-100	10	K,M,N	1M / 1V	52.0	4.20	4.60	2.60	3.20
21	JNR 6045H-150	15	K,M,N	1M / 1V	71.0	3.30	3.80	2.20	2.80
22	JNR 6045H-180	18	K,M,N	1M / 1V	80.0	2.90	3.40	2.10	2.60
23	JNR 6045H-220	22	K,M,N	1M / 1V	96.0	2.70	3.30	1.90	2.30
24	JNR 6045H-330	33	K,M,N	1M / 1V	145	2.10	2.50	1.50	1.80
25	JNR 6045H-470	47	K,M,N	1M / 1V	200	1.75	2.00	1.20	1.60
26	JNR 6045H-560	56	K,M,N	1M / 1V	230	1.65	1.80	1.00	1.40

No.	Part No.	L (μH)	TOL. \pm (%)	Test Freq.(Hz)	RDC (m Ω) $\pm 20\%$	I sat (A)		I rms (A)	
						Max.	Typ.	Max.	Typ.
27	JNR 6045H-680	68	K,M,N	1M / 1V	305	1.52	1.60	0.92	1.10
28	JNR 6045H-820	82	K,M,N	1M / 1V	365	1.40	1.50	0.88	0.98
29	JNR 6045H-101	100	K,M,N	1M / 1V	456	1.25	1.33	0.82	0.92
30	JNR 6045H-121	120	K,M,N	1M / 1V	500	1.10	1.20	0.79	0.85
31	JNR 6045H-151	150	K,M,N	1M / 1V	626	1.00	1.10	0.70	0.75
32	JNR 6045H-181	180	K,M,N	1M / 1V	745	0.90	1.00	0.60	0.68
33	JNR 6045H-221	220	K,M,N	1M / 1V	900	0.77	0.88	0.50	0.60
34	JNR 6045H-331	330	K,M,N	1M / 1V	1400	0.55	0.60	0.45	0.55
35	JNR 6045H-471	470	K,M,N	1M / 1V	2050	0.45	0.50	0.35	0.40

Note:

1. All test data referenced to 25°C ambient
2. Saturation Current (Isat) will cause L0 to drop approximately 30%
3. Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40°C
4. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions.
Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part emperature. Part temperature should be verified in the end application.

TYPICAL PERFORMANCE CURVES

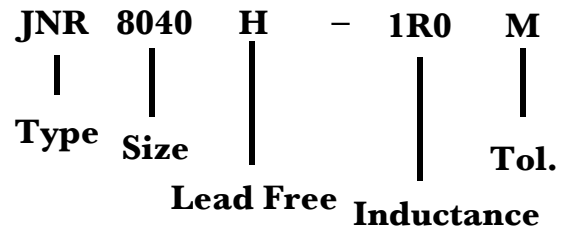




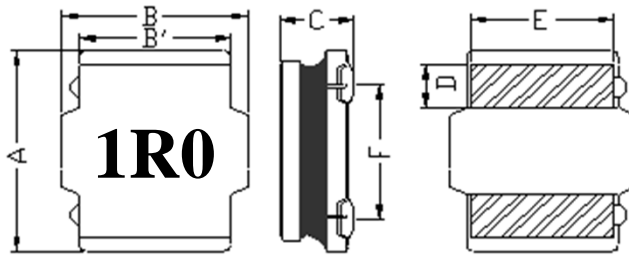
FEATURES

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

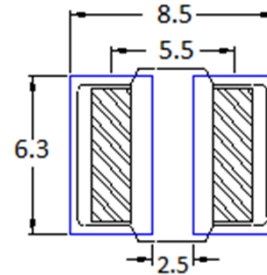
PRODUCT IDENTIFICATION



DIMENSIONS (mm)



Recommended PC Board Pattern



- Note:
1. The above PCB layout reference only.
 2. Recommend solder paste thickness at 0.15mm and above.

Part No.	Inductance	Size (mm)						
		A	B	B'	C	D	E	F
JNR 8040H	≤ 10 uH	8.0	8.0	6.3	3.9±0.3	2.0	6.0	5.5
	> 10 uH	±0.3	±0.3	±0.2	3.7±0.3	±0.3	±0.3	±0.3

SERIES LIST

No.	Part No.	L (μH)	TOL. ± (%)	Test Freq.(Hz)	RDC (mΩ) ±20%	I sat (A)		I rms (A)	
						Max.	Typ.	Max.	Typ.
1	JNR 8040H-1R0	1.0	M,N	1M / 1V	8.2	13.00	13.80	8.00	8.50
2	JNR 8040H-1R2	1.2	M,N	1M / 1V	8.2	11.50	12.80	7.80	8.30
3	JNR 8040H-1R4	1.4	M,N	1M / 1V	10	11.20	11.80	7.80	8.20
4	JNR 8040H-1R5	1.5	M,N	1M / 1V	10	11.00	11.50	7.70	8.00
5	JNR 8040H-1R6	1.6	M,N	1M / 1V	10	11.00	11.50	7.70	8.00
6	JNR 8040H-2R0	2.0	M,N	1M / 1V	11	9.60	10.20	7.10	7.50
7	JNR 8040H-2R2	2.2	M,N	1M / 1V	12	9.20	9.80	6.90	7.40
8	JNR 8040H-2R7	2.7	M,N	1M / 1V	13	8.20	9.00	6.50	7.00
9	JNR 8040H-3R3	3.3	M,N	1M / 1V	15	7.50	8.00	6.20	6.60
10	JNR 8040H-4R7	4.7	M,N	1M / 1V	20	6.00	6.70	5.30	5.80
11	JNR 8040H-5R6	5.6	M,N	1M / 1V	22	5.80	6.20	5.20	5.40
12	JNR 8040H-6R8	6.8	M,N	1M / 1V	25	5.10	5.60	5.00	5.10
13	JNR 8040H-8R2	8.2	M,N	1M / 1V	30	4.60	5.30	4.50	4.80
14	JNR 8040H-100	10	M,N	1M / 1V	33	4.30	5.00	4.20	4.60
15	JNR 8040H-150	15	M,N	1M / 1V	50	3.60	4.00	3.20	3.60
16	JNR 8040H-220	22	M,N	1M / 1V	73	2.80	3.10	2.45	2.90
17	JNR 8040H-330	33	M,N	1M / 1V	100	2.10	2.60	2.10	2.30
18	JNR 8040H-470	47	M,N	1M / 1V	135	1.90	2.20	1.70	2.00
19	JNR 8040H-560	56	M,N	1M / 1V	160	1.60	1.90	1.60	1.75
20	JNR 8040H-680	68	K,M,N	1M / 1V	205	1.50	1.75	1.50	1.65
21	JNR 8040H-820	82	K,M,N	1M / 1V	230	1.40	1.60	1.30	1.40
22	JNR 8040H-101	100	K,M,N	1M / 1V	300	1.20	1.45	1.10	1.20
23	JNR 8040H-121	120	K,M,N	1M / 1V	350	1.10	1.30	1.00	1.10
24	JNR 8040H-151	150	K,M,N	1M / 1V	410	1.03	1.20	0.90	0.98
25	JNR 8040H-181	181	K,M,N	1M / 1V	490	0.94	1.04	0.83	0.91
26	JNR 8040H-221	220	K,M,N	1M / 1V	610	0.90	0.99	0.76	0.85

No.	Part No.	L (μH)	TOL. \pm (%)	Test Freq.(Hz)	RDC (m Ω) $\pm 20\%$	I sat (A)		I rms (A)	
						Max.	Typ.	Max.	Typ.
27	JNR 8040H-331	330	K,M,N	100K / 1V	850	0.70	0.75	0.66	0.70
28	JNR 8040H-471	470	K,M,N	100K / 1V	1300	0.55	0.60	0.58	0.63

Note:

1. All test data referenced to 25°C ambient
2. Saturation Current (Isat) will cause L0 to drop approximately 30%
3. Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40°C
4. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions.
Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part emperature. Part temperature should be verified in the end application.

TYPICAL PERFORMANCE CURVES

