



◆ Features

- 1、Magnetic-resin shielded construction reduces buzz noise to ultra-low levels;
- 2、Metallization on ferrite core results in excellent shock resistance and damage-free durability;
- 3、Closed magnetic circuit design reduces leakage flux and Electro Magnetic Interference (EMI);
- 4、30% higher current rating than conventional inductors of equal size;
- 5、Take up less PCB real estate and save more power.



◆ Applications

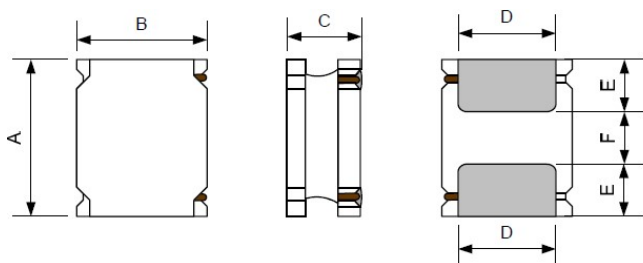
- 1、LED Lighting;
- 2、Mobile devices with multifunction such as adding color TV and camera;
- 3、Flat-screen TVs, blue-ray disc recorders, set top boxes;
- 4、Notebooks, desktop computers, servers, graphic cards;
- 5、Portable gaming devices, personal navigation systems, personal multimedia devices;
- 6、Automotive systems
- 7、Telecomm base stations

◆ Lead Free Part Numbering

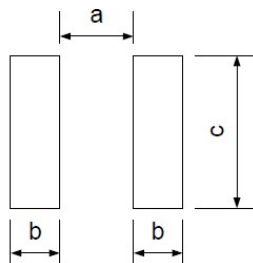
INNER	3015	S	100	M	T
(1)	(2)	(3)	(4)	(5)	(6)

- (1) Series Type
- (2) Dimension: L X H
- (3) Material Code
- (4) Inductance: 2R2=2.2μH;
100=10μH; 101=100μH
- (5) Inductance Tolerance: M=±20%, N=±30%
- (6) Packaging: Tape Carrier Package

◆ Dimensions



Recommended Land Pattern



Unit:mm

Series	A	B	C	D	E	F	a Typ.	b Typ.	c Typ.
INNER3015F	3.0±0.2	3.0±0.2	1.5Max.	2.5±0.2	0.75±0.2	1.50±0.2	1.5	0.8	2.7

◆ Specification

Part Number	Inductance @100KHz, 0.25V (μ H)	DC Resistance $\pm 30\%$ (m Ω)	Saturation Current(A)		Heat Rating Current (A)	
		DCR	Max	Typ	Max	Typ
INNER3015F1R0MST	1.0 $\pm 20\%$	30	2.32	2.80	2.10	2.50
INNER3015F1R5MST	1.5 $\pm 20\%$	50	2.00	2.70	1.70	2.20
INNER3015F2R2MST	2.2 $\pm 20\%$	60	1.60	2.00	1.60	2.00
INNER3015F2R7MST	2.7 $\pm 20\%$	75	1.52	1.90	1.50	1.90
INNER3015F3R3MST	3.3 $\pm 20\%$	80	1.32	1.81	1.36	1.60
INNER3015F4R7MST	4.7 $\pm 20\%$	125	1.10	1.40	1.09	1.30
INNER3015F6R8MST	6.8 $\pm 20\%$	200	0.85	1.10	0.85	1.10
INNER3015F100MST	10 $\pm 20\%$	250	0.72	0.92	0.77	0.90
INNER3015F120MST	12 $\pm 20\%$	320	0.70	0.90	0.68	0.89
INNER3015F150MST	15 $\pm 20\%$	350	0.66	0.88	0.65	0.72
INNER3015F180MST	18 $\pm 20\%$	430	0.56	0.72	0.59	0.72
INNER3015F220MST	22 $\pm 20\%$	460	0.52	0.68	0.57	0.68
INNER3015F330MST	33 $\pm 20\%$	820	0.44	0.53	0.42	0.51
INNER3015F470MST	47 $\pm 20\%$	1250	0.35	0.43	0.32	0.44
INNER3015F560MST	56 $\pm 20\%$	1280	0.33	0.42	0.34	0.41
INNER3015F680MST	68 $\pm 20\%$	2700	0.28	0.37	0.23	0.31
INNER3015F101MST	100 $\pm 20\%$	3110	0.23	0.25	0.21	0.25

◆ Note

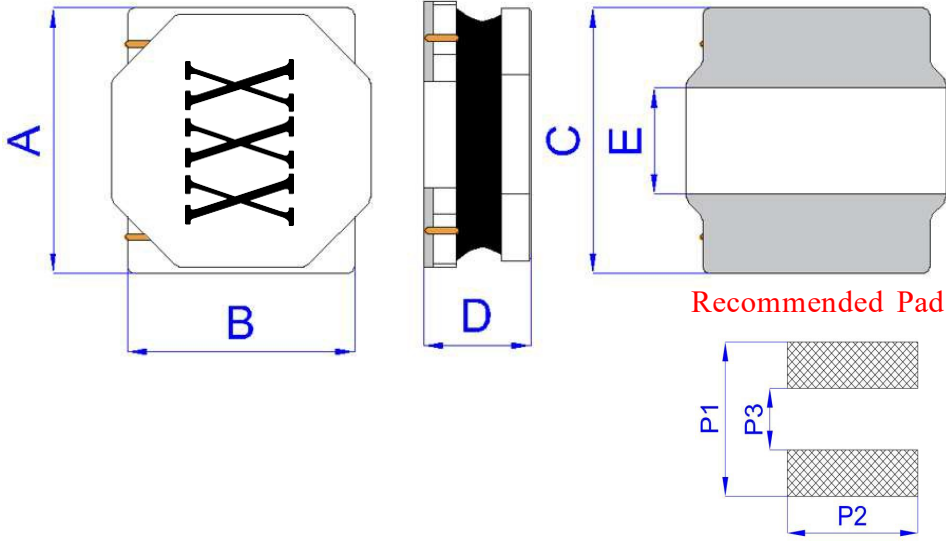
1. All test data is referenced to 20°C ambient; 2.

Rated current: Isat or Irms, whichever is smaller;

3. Isat: DC current at which the inductance drops approximate 30% from its value without current; 4. Irms: DC current that causes the temperature rise ($\Delta T = 40^\circ\text{C}$) from 20°C ambient.

CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 1/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	INNR4010F Series	DATE	2025/2/13

1.SHAPE & DIMENSION

UNIT: mm						SCHEMATICS	
						MARKING COLOR	
						BLACK	
A	B	C	D	E	P1	P2	P3
4	4	4	0.9	1.4	4.0	3.7	1.6
±0.2	±0.2	±0.2	±0.1	±0.2	Ref.	Ref.	Ref.

PART NUMBERING SYSTEM

IN NR 4010 F 2R2 M T
1 2 3 4 5 6 7

- 1 CHKPRODUCTION (INDAC品牌)
- 2 PRODUCT CATEGORY (产品种类) NR-镍锌 NRS-合金
- 3 DIMENSIONS (尺寸规格)
- 4 MAERTIAL TYPE (材料类型)
- 5 INDUCTANCE (电感量)
- 6 TOLERANCE (公差) M:±20% N:±25% Y:±30%
- 7 PACKAGING (包装方式) C - 编带盘装 B - 盒装

APPROVED BY	CHECKED BY	DRAFT BY
周江滨	朱长明	张水



深圳市英达可电子有限公司

SHENZHEN INDAC ELECTRONICS CO., LTD

CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 2/8
DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	INNR4010F Series	DATE	2025/2/13

2.SERIES SPECIFICATION

◆ INNR4010F Series Specification:

Part Number	Inductance	Test Freq	DCR (mΩ)		Saturation Current (A)		Temp. Rise Current (A)	
	(μH)	(Hz)	Max	Typ	Max	Typ	Max	Typ
INNR4010F1R0MT	1.00	100KHz/1V	83	66	2.70	3.00	2.90	3.30
INNR4010F2R2MT	2.20	100KHz/1V	143	110	1.80	1.90	1.90	2.10
INNR4010F3R3MT	3.30	100KHz/1V	160	123	1.55	1.75	1.75	1.90
INNR4010F4R7MT	4.70	100KHz/1V	240	200	1.30	1.50	1.50	1.70
INNR4010F6R8MT	6.80	100KHz/1V	360	280	1.15	1.30	1.30	1.50
INNR4010F8R2MT	8.20	100KHz/1V	396	328	1.00	1.15	1.35	1.50
INNR4010F100MT	10.0	100KHz/1V	480	392	0.80	0.90	1.00	1.10
INNR4010F150MT	15.0	100KHz/1V	612	510	0.70	0.85	0.90	1.00
INNR4010F220MT	22.0	100KHz/1V	1021	785	0.55	0.70	0.50	0.75
INNR4010F470MT	47.0	100KHz/1V	2018	1552	0.40	0.45	0.30	0.50

◆TEST CONDITION

ITEM	TEST CONDITION	TEST INSTRUMENTS
L	100KHz/1V	Microtest 6377
Isat		TH1773+Microtest 6377
Irms		
DCR	25±5℃	TH2512B

*The operating temperature is 25℃

*Isat: For Inductance drop 30% from its value without current

*Irms: The value of D.C current when the temperature rise is $\Delta T \leq 40^{\circ}\text{C}$. ($T_a=25^{\circ}\text{C}$)

*For INNR4010F Series size inductors, absolute maximum voltage: 25 V.

※此物料仅用于消费电子领域，若用于车载，航天，军事领域引起的一切品质和责任问题，我司既不承担※

APPROVED BY	CHECKED BY	DRAWN BY
周江滨	朱长明	张水

Wire Wound SMD Power Inductor



1. Features

- 1、Magnetic-resin shielded construction reduces buzz noise to ultra-low levels;
- 2、Metallization on ferrite core results in excellent shock resistance and damage-free durability;
- 3、Closed magnetic circuit design reduces leakage flux and Electro Magnetic Interference (EMI);
- 4、30% higher current rating than conventional inductors of equal size;
- 5、Take up less PCB real estate and save more power。



1) Applications

- 1、LED Lighting;
- 2、Mobile devices with multifunction such as adding color TV and camera;
- 3、Flat-screen TVs, blue-ray disc recorders, set top boxes;
- 4、Notebooks, desktop computers, servers, graphic cards;
- 5、Portable gaming devices, personal navigation systems, personal multimedia devices;
- 6、Automotive systems
- 7、Telecomm base stations

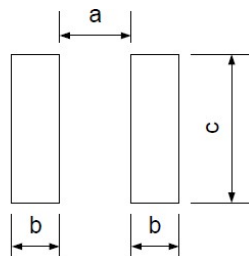
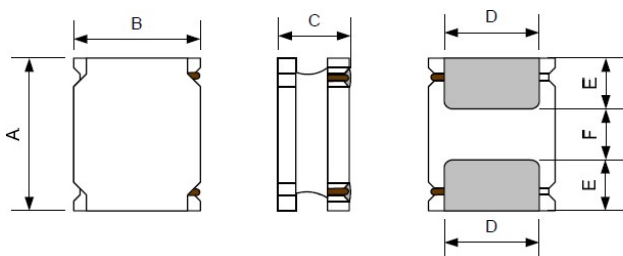
◆ Lead Free Part Numbering

INNER	4018	F	100	M	T
(1)	(2)	(3)	(4)	(5)	(6)

- Series Type
- Dimension: L X H
- Material Code
- Inductance: 2R2=2.2μH;
100=10μH; 101=100μH
- Inductance Tolerance: M=±20%, N=±30%
- Packaging: Tape Carrier Package

2) Dimensions

Recommended Land Pattern



Unit:mm

Series	A	B	C	D	E	F	a Typ.	b Typ.	c Typ.
INNER4018F	4.0±0.2	4.0±0.2	1.8Max.	3.3±0.2	0.95±0.2	2.10±0.2	1.9	1.1	3.7

6) Specification

Part Number	Inductance @100KHz, 1V (μH)	DC Resistance±30% (Ω)	Min.Self- resonant Frequency (MHz)	Saturation Current(A)	Heat Rating Current (A)
		DCR	S.R.F	Isat	Irms
INNER4018F Series					
INNER4018F1R0MT	1.0±20%	0.025	80	4.8	2
INNER4018F1R5MT	1.5±20%	0.03	65	3.35	1.8
INNER4018F2R2MT	2.2±20%	0.045	52	3	1.65
INNER4018F3R3MT	3.3±20%	0.07	44	2.45	1.23
INNER4018F4R7MT	4.7±20%	0.09	34	2	1.2
INNER4018F5R6MT	5.6±20%	0.105	32	1.65	1.1
INNER4018F6R8MT	6.8±20%	0.11	29	1.45	1.06
INNER4018F100MT	10±20%	0.18	24	1.3	0.84
INNER4018F150MT	15±20%	0.25	19	0.94	0.65
INNER4018F220MT	22±20%	0.36	16	0.8	0.59
INNER4018F330MT	33±20%	0.53	12	0.65	0.49
INNER4018F470MT	47±20%	0.65	10	0.57	0.42
INNER4018F680MT	68±20%	1	8.3	0.47	0.32
INNER4018F101MT	100±20%	1.75	6.5	0.4	0.25
INNER4018F151MT	150±20%	2.5	5.5	0.31	0.22
INNER4018F221MT	220±20%	4	4	0.27	0.17

7) Note

1: All test data is referenced to 20°C ambient; 2:

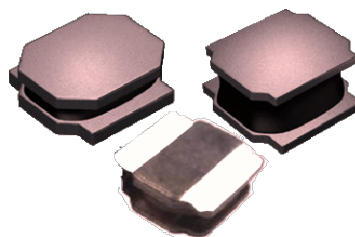
Rated current: Isat or Irms, whichever is smaller;

3: Isat: DC current at which the inductance drops approximate 30% from its value without current; 4:

Irms: DC current that causes the temperature rise ($\Delta T = 40^\circ\text{C}$) from 20°C ambient.

◆ Features

- 1、Magnetic-resin shielded construction reduces buzz noise to ultra-low levels;
- 2、Metallization on ferrite core results in excellent shock resistance and damage-free durability;
- 3、Closed magnetic circuit design reduces leakage
- 4、Small and low profile inductor;
- 5、Take up less PCB real estate and save more power。



◆ Applications

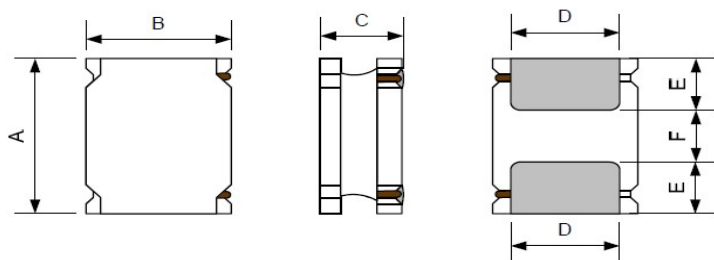
- 1、Smart phone;
- 2、Mobile devices with multifunction such as adding color TV and camera;
- 3、Flat-screen TVs, blue-ray disc recorders, set top boxes;
- 4、Notebooks, desktop computers, servers, graphic cards;
- 5、Portable gaming devices, personal navigation systems, personal multimedia devices;
- 6、Automotive systems;
- 7、Telecomm base stations.

◆ Lead Free Part Numbering

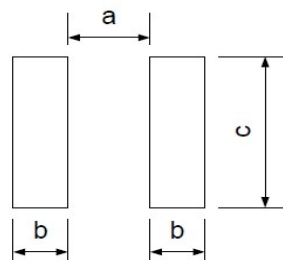
INNER 4020 F 2R2 M T
(1) (2) (3) (4) (5) (6)

- (1) Series Type
- (2) Dimension: $L \times W \times H(4.0 \times 4.0 \times 1.2\text{mm})$
- (3) Material Code
- (4) Inductance: R47=0.47 μH ;
2R2=2.2 μH ; 100=10 μH
- (5) Inductance Tolerance: M=±20%, N=±30%
- (6) Company Code
- (7) Packaging: Tape Carrier Package

◆ Dimensions



Recommended Land Pattern



Unit:mm

Series	A	B	C	D	E	F	a Typ.	b Typ.	c Typ.
INNER4020F	4.0±0.2	4.0±0.2	2.0 Max.	3.3±0.2	0.95±0.2	2.10±0.2	1.90	1.10	3.7

◆ Specification

Part Number	Inductance @100KHz,1V (μH)	DC Resistance(m Ω)		Saturation Current Typ. (A)	Heat Rating Current Typ. (A)
		Max.	Typ.		
		DCR		Isat	Irms
INNER4012F Series					
INNER4020FR22MT	0.22±20%	13	11	22.00	18.70
INNER4020FR47MT	0.47±20%	22	18	15.50	7.40
INNER4020FR68MT	0.68±20%	22	18	11.10	7.40
INNER4020F1R0MT	1.00±20%	26	22	8.70	5.50
INNER4020F1R5MT	1.50±20%	38	33	7.70	5.20
INNER4020F2R2MT	2.20±20%	58	40	6.50	4.20
INNER4020F3R3MT	3.30±20%	82	60	5.50	3.50
INNER4020F4R7MT	4.70±20%	112	95	4.90	2.80
INNER4020F6R8MT	6.80±20%	155	135	3.20	2.40
INNER4020F100MT	10.00±20%	216	180	2.80	2.00
INNER4020F220MT	22.00±20%	422	360	2.00	1.10

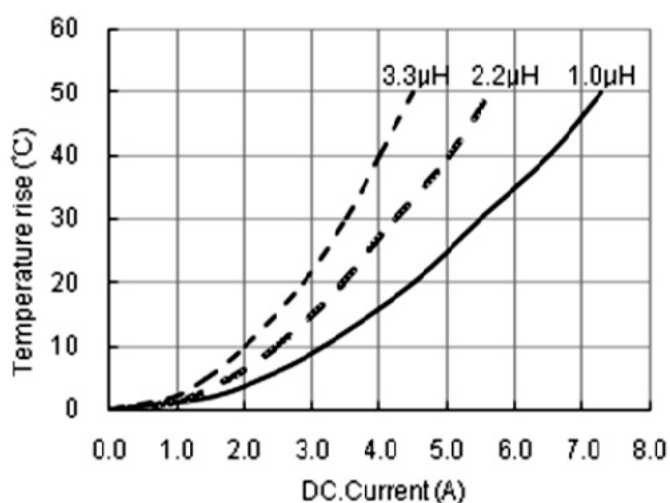
◆ Note

- 1: All test data is referenced to 20°C ambient;
- 2: Rated current: Isat or Irms, whichever is smaller;
- 3: Isat: DC current at which the inductance drops approximate 30% from its value without current;
- 4: Irms: DC current that causes the temperature rise ($\Delta T = 40^\circ\text{C}$) from 20°C ambient.

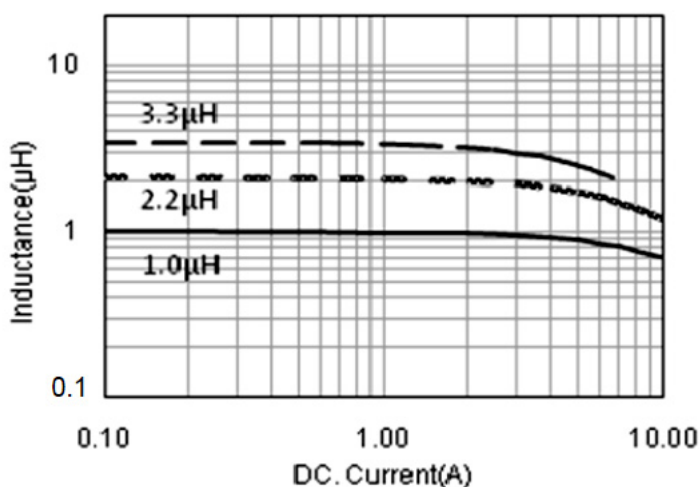
◆ TYPICAL ELECTRICAL CHARACTERISTICS

INNER4020F Series

Temperature vs.DC Current Characteristics



Inductance vs.DC Current Characteristics





◆ Features

- 1、Magnetic-resin shielded construction reduces buzz noise to ultra-low levels;
- 2、Metallization on ferrite core results in excellent shock resistance and damage-free durability;
- 3、Closed magnetic circuit design reduces leakage flux and Electro Magnetic Interference (EMI);
- 4、30% higher current rating than conventional inductors of equal size;
- 5、Take up less PCB real estate and save more power.



◆ Applications

- 1、LED Lighting;
- 2、Mobile devices with multifunction such as adding color TV and camera;
- 3、Flat-screen TVs, blue-ray disc recorders, set top boxes;
- 4、Notebooks, desktop computers, servers, graphic cards;
- 5、Portable gaming devices, personal navigation systems, personal multimedia devices;
- 6、Automotive systems
- 7、Telecomm base stations

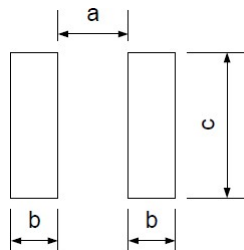
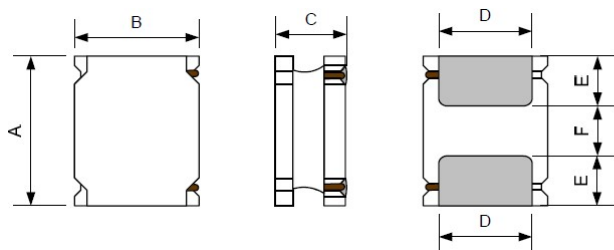
◆ Lead Free Part Numbering

INNER	5020	S	100	M	T
(1)	(2)	(3)	(4)	(5)	(6)

- (1) Series Type
- (2) Dimension: L X H
- (3) Material Code
- (4) Inductance: 2R2=2.2μH;
100=10μH; 101=100μH
- (5) Inductance Tolerance: M=±20%, N=±30%
- (6) Packaging: Tape Carrier Package

◆ Dimensions

Recommended Land Pattern



Unit:mm

Series	A	B	C	D	E	F	a Typ.	b Typ.	c Typ.
INNER5020F	5.0±0.2	5.0±0.2	2.0Max.	4.0±0.2	1.25±0.2	2.50±0.2	2.1	1.5	4.4

◆ Specification

Part Number	Inductance @100KHz,1V (μH)	DC Resistance ±20% (Ω)	Min.Self-resonant Frequency (MHz)	Saturation Current(A)	Heat Rating Current (A)
		DCR	S.R.F	Isat	Irms
INNER5020F Series					
INNER5020FR47NST	0.47±30%	0.013	160	6.15	4.60
INNER5020FR68NST	0.68±30%	0.017	120	5.50	4.00
INNER5020F1R0MT	1.0±20%	0.020	97	4.33	3.70
INNER5020F1R5MT	1.5±20%	0.026	80	3.85	3.20
INNER5020F2R2MT	2.2±20%	0.035	61	3.85	2.90
INNER5020F3R3MT	3.3±20%	0.044	46	3.25	2.40
INNER5020F4R7MT	4.7±20%	0.057	33	2.50	2.25
INNER5020F5R6MT	5.6±20%	0.064	33	2.30	2.05
INNER5020F6R8MT	6.8±20%	0.087	30	1.80	1.70
INNER5020F100MT	10±20%	0.110	24	1.79	1.50
INNER5020F150MT	15±20%	0.165	20	1.44	1.25
INNER5020F220MT	22±20%	0.235	16	1.18	1.05
INNER5020F330MT	33±20%	0.370	13	0.97	0.83
INNER5020F470MT	47±20%	0.525	11	0.81	0.70
INNER5020F680MT	68±20%	0.885	8.8	0.70	0.53
INNER5020F101MT	100±20%	1.060	7.6	0.57	0.49
INNER5020F151MT	150±20%	1.625	5.6	0.41	0.40

◆ Note

1. All test data is referenced to 20°C ambient; 2.

Rated current: Isat or Irms, whichever is smaller;

3. Isat: DC current at which the inductance drops approximate 30% from its value without current; 4. Irms:

DC current that causes the temperature rise ($\Delta T = 40^\circ\text{C}$) from 20°C ambient.



◆ Features

- 1、Magnetic-resin shielded construction reduces buzz noise to ultra-low levels;
- 2、Metallization on ferrite core results in excellent shock resistance and damage-free durability;
- 3、Closed magnetic circuit design reduces leakage flux and Electro Magnetic Interference (EMI);
- 4、30% higher current rating than conventional inductors of equal size;
- 5、Take up less PCB real estate and save more power.



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- 1、LED Lighting;
- 2、Mobile devices with multifunction such as adding color TV and camera;
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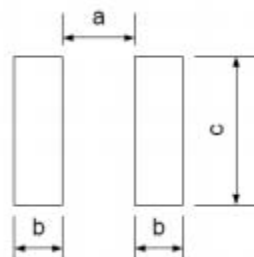
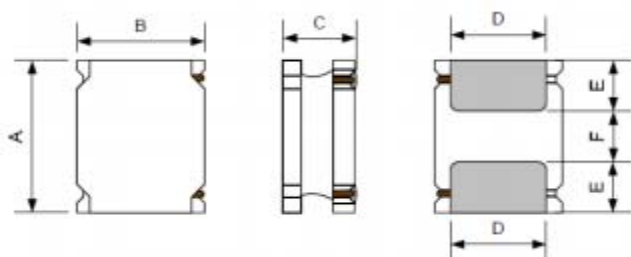
◆ Lead Free Part Numbering

INNER 5040 F 100 M T
(1) (2) (3) (4) (5) (6)

- (1) Series Type
- (2) Dimension: L X H
- (3) Material Code
- (4) Inductance: 2R2=2.2 μ H;
100=10 μ H; 101=100 μ H
- (5) Inductance Tolerance: M=±20%, N=±30%
- (6) Packaging: Tape Carrier Package

◆ Dimensions

Recommended Land Pattern



Unit:mm

Series	A	B	C	D	E	F	a Typ.	b Typ.	c Typ.
INNER5040F	5.0±0.2	5.0±0.2	4.0Max.	4.0±0.2	1.25±0.2	2.50±0.2	2.1	1.5	4.4

◆ Specification

Part Number	Inductance @100KHz, 1V (μH)	DC Resistance ±30% (Ω)	Min.Self-resonant Frequency (MHz)	Saturation Current(A)	Heat Rating Current (A)
		DCR	S.R.F	Isat	Irms
CMLW5040 Series					
INNER5040F1R0MT	1.0±20%	0.012	117	7.35	4.90
INNER5040F1R5MT	1.5±20%	0.013	86	7.30	4.45
INNER5040F2R2MT	2.2±20%	0.019	42	6.50	3.95
INNER5040F3R3MT	3.3±20%	0.025	32	5.10	3.40
INNER5040F4R7MT	4.7±20%	0.030	28	4.40	3.10
INNER5040F6R8MT	6.8±20%	0.043	21	3.80	2.40
INNER5040F8R2MT	8.2±20%	0.048	20	2.70	2.30
INNER5040F100MT	10±20%	0.055	18	2.90	2.10
INNER5040F150MT	15±20%	0.089	13	2.30	1.60
INNER5040F220MT	22±20%	0.126	9	1.90	1.40
INNER5040F330MT	33±20%	0.192	7	1.60	1.20
INNER5040F470MT	47±20%	0.283	6	1.30	0.94
INNER5040F680MT	68±20%	0.520	5	1.10	0.90
INNER5040F820MT	82±20%	0.610	5	0.80	0.70
INNER5040F101MT	100±20%	0.728	4	0.80	0.65
INNER5040F151MT	150±20%	0.915	2	0.60	0.50
INNER5040F221MT	220±20%	1.550	2	0.55	0.45
INNER5040F331MT	330±20%	3.020	2	0.45	0.38
INNER5040F471MT	470±20%	3.600	1	0.40	0.35
INNER5040F561MT	560±20%	4.160	1	0.35	0.33
INNER5040F102MT	1000±20%	8.640	1	0.30	0.25

◆ Note

- 1: All test data is referenced to 20°C ambient;
- 2: Rated current: Isat or Irms, whichever is smaller;
- 3: Isat: DC current at which the inductance drops approximate 30% from its value without current;
- 4: Irms: DC current that causes the temperature rise ($\Delta T = 40^\circ\text{C}$) from 20°C ambient.



INNER6028F Series

Wire Wound SMD Power Inductor

1. Features

- 1、Magnetic-resin shielded construction reduces buzz noise to ultra-low levels;
- 2、Metallization on ferrite core results in excellent shock resistance and damage-free durability;
- 3、Closed magnetic circuit design reduces leakage flux and Electro Magnetic Interference (EMI);
- 4、30% higher current rating than conventional inductors of equal size;
- 5、Take up less PCB real estate and save more power。



1) Applications

- 1、LED Lighting;
- 2、Mobile devices with multifunction such as adding color TV and camera;
- 3、Flat-screen TVs, blue-ray disc recorders, set top boxes;
- 4、Notebooks, desktop computers, servers, graphic cards;
- 5、Portable gaming devices, personal navigation systems, personal multimedia devices;
- 6、Automotive systems
- 7、Telecomm base stations

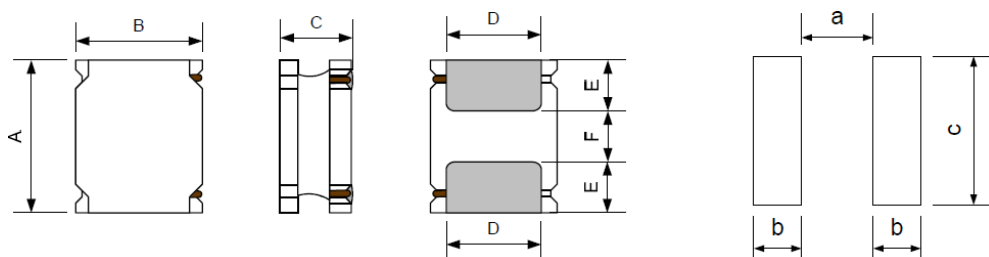
◆ Lead Free Part Numbering

INNER	6028	F	100	M	T
(1)	(2)	(3)	(4)	(5)	(7)

- Series Type
- Dimension: L X H
- Material Code
- Inductance: 2R2=2.2μH;
100=10μH; 101=100μH
- Inductance Tolerance: M=±20%, N=±30%
- Company Code
- Packaging: Tape Carrier Package

2) Dimensions

Recommended Land Pattern



Unit:mm

Series	A	B	C	D	E	F	a Typ.	b Typ.	c Typ.
INNER6028 F	6.0± 0.3	6.0± 0.3	2.8Ma x.	4.9±0. 3	1.55± 0.3	2.90± 0.3	2.8	1.7	5.7

6) Specification

Part Number	Inductance @100KHz, 1V (μH)	DC Resistance ±30% (Ω)	Min.Self-resonant Frequency (MHz)	Saturation Current(A)	Heat Rating Current (A)
		DCR		Is	Ir
INNER6028F Series					
INNER6028F1R0MST	1.0±20%	0.010	70	6.00	5.20
INNER6028F1R5MST	1.5±20%	0.013	65	6.00	4.58
INNER6028F2R2MST	2.2±20%	0.015	56	5.10	4.09
INNER6028F3R3MST	3.3±20%	0.025	41	3.63	3.48
INNER6028F4R7MST	4.7±20%	0.030	35	3.00	3.08
INNER6028F6R8MST	6.8±20%	0.047	27	2.85	2.40
INNER6028F8R2MST	8.2±20%	0.055	24	2.60	2.25
INNER6028F100MST	10±20%	0.072	23	2.04	1.95
INNER6028F120MST	12±20%	0.080	18	1.80	1.85
INNER6028F150MST	15±20%	0.125	18	1.75	1.45
INNER6028F180MST	18±20%	0.120	15	1.52	1.45
INNER6028F220MST	22±20%	0.140	14	1.60	1.40
INNER6028F270MST	27±20%	0.155	13	1.50	1.32
INNER6028F330MST	33±20%	0.185	12	1.35	1.22
INNER6028F390MST	39±20%	0.225	11	1.25	1.10
INNER6028F470MST	47±20%	0.315	9.5	1.15	1.06
INNER6028F620MST	62±20%	0.345	7.7	0.95	0.89
INNER6028F680MST	68±20%	0.360	7.7	0.95	0.86
INNER6028F750MST	75±20%	0.410	7.7	0.90	0.81
INNER6028F820MST	82±20%	0.445	7.7	0.90	0.78
INNER6028F101MST	100±20%	0.500	7.1	0.65	0.70

7) Note

1. All test data is referenced to 20℃ ambient;
2. Rated current: Isat or Irms, whichever is smaller;
3. Isat: DC current at which the inductance drops approximate 30% from its value without current;
4. Irms: DC current that causes the temperature rise (ΔT =40℃) from 20℃ ambient.

8) Standard Packing Quantity: 2000 pcs/reel

◆ Features

- 1、Magnetic-resin shielded construction reduces buzz noise to ultra-low levels;
- 2、Metallization on ferrite core results in excellent shock resistance and damage-free durability;
- 3、Closed magnetic circuit design reduces leakage flux and Electro Magnetic Interference (EMI);
- 4、30% higher current rating than conventional inductors of equal size;
- 5、Take up less PCB real estate and save more power.

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◆ Applications

- 1、LED Lighting;
- 2、Mobile devices with multifunction such as adding color TV and camera;
- 3、Flat-screen TVs, blue-ray disc recorders, set top boxes;
- 4、Notebooks, desktop computers, servers, graphic cards;
- 5、Portable gaming devices, personal navigation systems, personal multimedia devices;
- 6、Automotive systems
- 7、Telecomm base stations

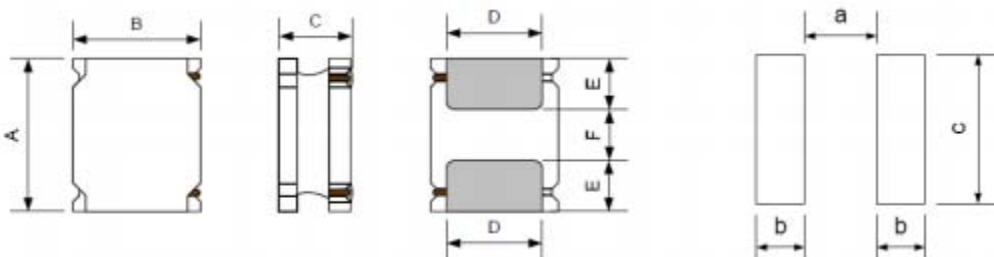
◆ Lead Free Part Numbering

INNER	6045	F	100	M	T
(1)	(2)	(3)	(4)	(5)	(6)

- (1) Series Type
- (2) Dimension: L X H
- (3) Material Code
- (4) Inductance : 2R2=2.2 μ H ;
100=10 μ H; 101=100 μ H
- (5) Inductance Tolerance: M=±20%, N=±30%
- (6) Company Code
- (7) Packaging : Tape Carrier Package

◆ Dimensions

Recommended Land Pattern



Unit:mm

Series	A	B	C	D	E	F	a Typ.	b Typ.	c Typ.
INNER6045F	6.0±0.3	6.0±0.3	4.5Max.	4.9±0.3	1.55±0.3	2.90±0.3	2.8	1.7	5.7

◆ Specification

Part Number	Inductance @100KHz,1V (μH)	DC Resistance ±30% (Ω)	Min.Self-resonant Frequency (MHz)	Saturation Current(A)	Heat Rating Current (A)
		DCR	S.R.F	Isat	Irms
INNER6045S Series					
INNER6045FR82NT	0.82±30%	0.008	140	10.40	5.90
INNER6045F1R0NT	1.0±30%	0.011	100	9.85	5.14
INNER6045F1R5NT	1.5±30%	0.012	65	8.80	4.95
INNER6045F1R8MT	1.8±20%	0.012	74	7.60	4.95
INNER6045F2R2MT	2.2±20%	0.014	52	6.75	4.60
INNER6045F3R3MT	3.3±20%	0.021	32	5.90	3.70
INNER6045F4R3MT	4.3±20%	0.023	23	4.45	3.50
INNER6045F4R7MT	4.7±20%	0.026	24	4.97	3.30
INNER6045F5R6MT	5.6±20%	0.029	23	4.15	3.15
INNER6045F6R8MT	6.8±20%	0.031	20	3.90	3.00
INNER6045F7R5MT	7.5±20%	0.034	18	3.50	2.90
INNER6045F8R2MT	8.2±20%	0.043	21	3.90	2.60
INNER6045F100MT	10±20%	0.048	15	3.20	2.45
INNER6045F120MT	12±20%	0.058	13	2.80	2.20
INNER6045F150MT	15±20%	0.068	12	2.50	2.05
INNER6045F220MT	22±20%	0.089	10	2.05	1.80
INNER6045F330MT	33±20%	0.137	7.8	1.65	1.45
INNER6045F470MT	47±20%	0.200	6.4	1.40	1.20
INNER6045F560MT	56±20%	0.221	6.4	1.30	1.10
INNER6045F680MT	68±20%	0.289	6.4	1.20	1.00
INNER6045F820MT	82±20%	0.341	4.9	1.05	0.90
INNER6045F101MT	100±20%	0.433	4.2	0.95	0.80
INNER6045F121MT	120±20%	0.484	4.2	0.85	0.77
INNER6045F151MT	150±20%	0.580	4.2	0.80	0.70
INNER6045F221MT	220±20%	0.834	3.5	0.70	0.59
INNER6045F331MT	330±20%	1.270	2.8	0.57	0.57

◆ Note

- 1 : All test data is referenced to 20°C ambient;
- 2 : Rated current: Isat or Irms, whichever is smaller;
- 3 : Isat: DC current at which the inductance drops approximate 30% from its value without current;
- 4 : Irms: DC current that causes the temperature rise (ΔT =40°C) from 20°C ambient.

◆ Standard Packing Quantity: 1500 pcs/reel



◆ Features

- 1、Magnetic-resin shielded construction reduces buzz noise to ultra-low levels;
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◆ Applications

- 1、LED Lighting;
- 2、Mobile devices with multifunction such as adding color TV and camera;
- 3、Flat-screen TVs, blue-ray disc recorders, set top boxes;
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- 5、Portable gaming devices, personal navigation systems, personal multimedia devices;
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- 7、Telecomm base stations

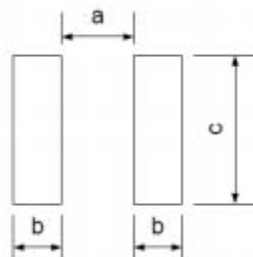
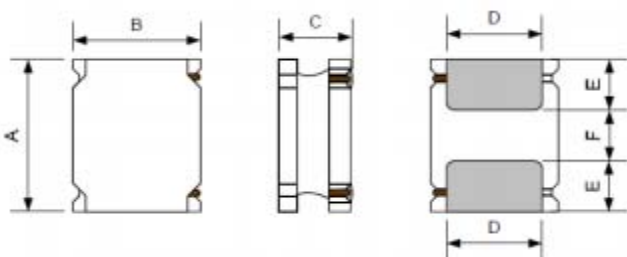
◆ Lead Free Part Numbering

INNER 8040 F 100 M T
(1) (2) (3) (4) (5) (6)

- (1) Series Type
- (2) Dimension: L X H
- (3) Material Code
- (4) Inductance: 2R2=2.2μH;
100=10μH; 101=100μH
- (5) Inductance Tolerance: M=±20%, N=±30%
- (6) Packaging: Tape Carrier Package

◆ Dimensions

Recommended Land Pattern



Unit:mm

Series	A	B	C	D	E	F	a Typ.	b Typ.	c Typ.
INNER8040F	8.0±0.3	8.0±0.3	4.2Max.	6.3±0.3	2.00±0.3	4.00±0.3	3.8	2.2	7.5

◆ Specification

Part Number	Inductance @100KHz, 1V (μH)	DC Resistance ±30% (Ω)	Min.Self-resonant Frequency (MHz)	Saturation Current(A)	Heat Rating Current (A)
		DCR	S.R.F	Isat	Irms
INNER8040F Series					
INNER8040FR82NT	0.82±30%	0.008	94	13.80	6.30
INNER8040F1R0NT	1.0±30%	0.008	89	9.85	6.30
INNER8040F1R5NT	1.5±30%	0.010	67	8.15	5.65
INNER8040F2R2MT	2.2±20%	0.012	41	7.10	5.15
INNER8040F3R3MT	3.3±20%	0.017	27	6.50	4.40
INNER8040F4R7MT	4.7±20%	0.019	24	5.90	4.10
INNER8040F5R6MT	5.6±20%	0.021	24	6.00	3.85
INNER8040F6R8MT	6.8±20%	0.024	20	4.55	3.60
INNER8040F8R2MT	8.2±20%	0.026	17	4.20	3.45
INNER8040F100MT	10±20%	0.029	15	3.60	3.30
INNER8040F120MT	12±20%	0.041	13	3.50	2.80
INNER8040F150MT	15±20%	0.047	12	2.95	2.60
INNER8040F220MT	22±20%	0.069	9.5	2.40	2.10
INNER8040F330MT	33±20%	0.097	7.8	2.05	1.80
INNER8040F470MT	47±20%	0.136	6.4	1.75	1.55
INNER8040F560MT	56±20%	0.148	6.4	1.55	1.45
INNER8040F680MT	68±20%	0.196	4.9	1.45	1.25
INNER8040F101MT	100±20%	0.290	4.2	1.15	1.00
INNER8040F121MT	120±20%	0.334	3.5	1.05	0.95
INNER8040F151MT	150±20%	0.410	3.5	1.10	0.85
INNER8040F221MT	220±20%	0.599	3.5	0.85	0.80
INNER8040F331MT	330±20%	0.889	2.8	0.68	0.64

◆ Note

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