Specification for Approval

Customer	
Product Name	Wire Wound Molded SMD Power Inductors
Customer P/N:	
Cjiang P/N:	FTC Series

[■New Released, □Revised] SPEC No.:

REMARK：		
Customer Approval Feedback		

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Version change history					
Rev	Date	Description	APPROVED	CHECKED	DRAWN
1.0	2022/8/9	文件制定	Bond	Charles	王云燕

Caution :

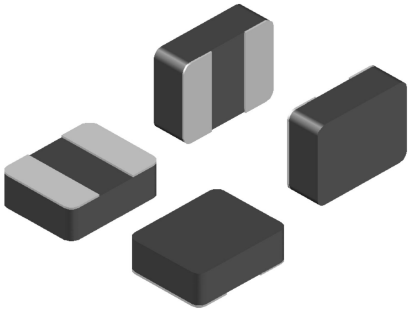
All products listed in this specification are developed, designed and intended for use in general electronics equipment. The products are not designed or Warranted to meet the requirements of the applications listed below, whose performance and/or quality require especially high reliability, or whose failure, malfunction or trouble might directly cause damage to society, person, or property. Please understand that we are not responsible for any damage or liability caused by use of the products in any of the applications below. Please contact us for more details if you intend to use our products in the following applications.

1. Aircraft equipment.
2. Aerospace equipment.
3. Undersea equipment.
4. nuclear control equipment.
5. military equipment.
6. Power plant equipment.
7. Medical equipment.
8. Transportation equipment (automobiles, trains, ships,etc.)
9. Traffic signal equipment.
10. Disaster prevention / crime prevention equipment.
11. Data-processing equipment.
12. Applications of similar complexity or with reliability requirements comparable to the applications listed in the above.

1. Scope

Featurs

1.1 Metal material for large current and low loss.
1.2 High performance (Isat) realized by metal dust core.
1.3 Low loss realized with low Rdc.
1.4 Closed magnetic circuit design reduces leakage flux.
1.5 Vinyl thermal spray, better surface compactness.
1.6 100% lead (Pb) free meet RoHS standard.



Application

2.1 DC/DC converters.
2.2 Pad,Smart phone.
2.3 Portable gaming devices, Smart wear, Wi-Fi module.
2.4 Notebooks, VR, AR.
2.5 LCD displays, HDDs, DVCs, DSCs, etc.
2.6 Baseband power supply, Amplifier, Power management, Module power supply, Camera power manageme.

2. Ordering Procedure

FTC	2016	10	S	1R0	M	B	C	*
①	②	③	④	⑤	⑥	⑦	⑧	⑨

①Series Name: Mini Molding Power Inductors

②External Dimensions(L×W):2016=2.0*1.6 mm

③External Dimensions(H):10=1.0 mm

④Size Tolerance:S=±0.2mm D=±0.1mm

⑤Inductance value:1R0=1.0uH

⑥Tolerance:K=±10% M=±20% N=±30%

⑦Coating color:B=Black G=Grey

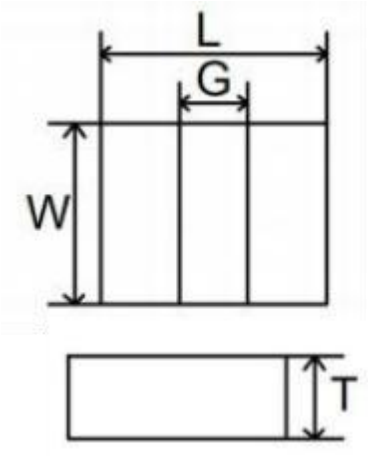
⑧Product type:C=Common

⑨Special define:A=Routine B~Z=Special

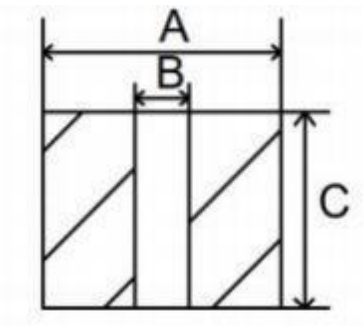
For special characteristics, please refer to the specific values in Item 5 "Specifications".

4. SHAPE AND DIMENSIONS

Outline Dimensions



Recommend Land Pattern Dimensions



Units: mm

Series	L	G（TYP)	W	T	A	B	C
FTC100765D	1.0±0. 1	0.3	0.7±0. 1	0.65Max.	1.00	0.20	0.70
FTC121065S	1.2±0.2	0.4	1.0±0.2	0.65Max.	1.30	0.30	1. 10
FTC160865D	1.6±0. 1	0.5	0.8±0. 1	0.65Max.	1.70	0.40	0.90
FTC160865S	1.6±0.2	0.5	0.8±0.2	0.65Max.	1.60	0.40	0.80
FTC160808S	1.6±0.2	0.5	0.8±0.2	0.80Max.	1.70	0.40	0.90
FTC160810S	1.6±0.2	0.5	0.8±0.2	1.00Max.	1.70	0.40	0.90
FTC141265S	1.4±0.2	0.5	1.2±0.2	0.65Max.	1.50	0.45	1.30
FTC141208S	1.4±0.2	0.5	1.2±0.2	0.80Max.	1.50	0.45	1.30
FTC201265S	2.0±0.2	0.5	1.2±0.2	0.65Max.	2. 10	0.50	1.30
FTC201208S	2.0±0.2	0.5	1.2±0.2	0.80Max.	2. 10	0.50	1.30
FTC201210S	2.0±0.2	0.5	1.2±0.2	1.00Max.	2. 10	0.50	1.30
FTC201608S	2.0±0.2	0.6	1.6±0.2	0.80Max.	2. 10	0.50	1.70
FTC201610S	2.0±0.2	0.6	1.6±0.2	1.00Max.	2. 10	0.50	1.70
FTC201610D	2.0±0. 1	0.6	1.6±0. 1	1.00Max.	2.00	0.50	1.60
FTC201612S	2.0±0.2	0.6	1.6±0.2	1.20Max.	2. 10	0.50	1.70
FTC252010S	2.5±0.2	0.7	2.0±0.2	1.00Max.	2.60	0.70	2. 10
FTC252012S	2.5±0.2	0.7	2.0±0.2	1.20Max.	2.60	0.70	2. 10
FTC322512S	3.2±0.2	0.9	2.5±0.2	1.20Max.	3.25	0.90	2.55
FTC322520S	3.2±0.2	0.9	2.5±0.2	2.00Max	3.25	0.90	2.55
FTC303020D	3.0±0. 1	1.0	3.0±0. 1	2.00Max.	2.90	0.90	2.90

5. Marking

No Marking

5. Specifications

①1007 Series

FTC100765(1.0*0.7*0.65mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FTC100765D1R5MBCA	1.5	400	500	0.4	0.3	1.1	0.9
FTC100765D2R6MGCA	2.6	750	900	0.55	0.4	1.0	0.8

②1210 Series

FTC121065(1.2*1.0*0.65mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FTC121065S2R2MBCA	2.2	280	340	1.0	0.9	1.3	1.2

③1608 Series

FTC160865(1.6*0.8*0.65mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FTC160865DR22MGCA	0.22	35	43	3.8	3.5	4.7	4.3
FTC160865SR47MGCA	0.47	66	82	2.3	2.0	3.3	3.0

FTC160808(1.6*0.8*0.8mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FTC160808SR22MBCA	0.22	33	40	3.4	3.0	5.5	5.0
FTC160808SR24MBCA	0.24	34	41	3.3	2.9	5.3	4.8
FTC160808SR47MBCA	0.47	80	100	2.6	2.3	4.1	3.7
FTC160808SR47MBCD	0.47	48	55	3.8	3.4	4.0	3.5
FTC160808SR56MBCA	0.56	85	110	2.2	1.9	4.0	3.5
FTC160808SR68MBCA	0.68	110	130	2.1	1.9	3.3	3.0
FTC160808S1R0MBCA	1.0	180	200	2.1	1.8	3.0	2.6
FTC160808S1R0MGCD	1.0	105	115	2.1	1.8	2.3	2.1
FTC160808S2R2MGCA	2.2	220	260	1.4	1.2	1.5	1.3

FTC160810(1.6*0.8*1.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FTC160810SR22MBCA	0.22	28	35	4.5	4.0	6.5	6.0
FTC160810SR24MBCA	0.24	28	35	4.4	3.9	6.3	5.8

FTC160810SR47MBCA	0.47	65	80	4.0	3.5	4.8	4.4
FTC160810SR56MBCA	0.56	70	95	3.5	3.0	4.2	3.7
FTC160810SR68MBCA	0.68	90	115	3.0	2.5	3.6	3.2

④1412 Series
FTC141265(1.4*1.2*0.65mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FTC141265SR33MBCA	0.33	26	32	4.4	4.2	4.4	4.0
FTC141265SR33MGCA	0.33	26	32	4.4	4.2	4.4	4.0
FTC141265SR47MBCA	0.47	37	45	3.0	2.7	3.4	3.0
FTC141265SR47MGCA	0.47	37	45	3.0	2.7	3.4	3.0

FTC141207(1.4*1.2*0.7mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FTC141207SR24MBCA	0.24	22	28	4.0	3.6	4.6	4.3
FTC141207SR47MBCA	0.47	34	38	3.8	3.3	3.8	3.5

FTC141208(1.4*1.2*0.8mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FTC141208SR24MBCA	0.24	22	27	4.1	3.7	6.0	5.7
FTC141208SR33MBCA	0.33	23	28	4.0	3.5	5.3	5.0
FTC141208SR33MGCA	0.33	23	28	4.0	3.5	5.3	5.0
FTC141208SR47MBCA	0.47	29	35	3.8	3.3	4.6	4.2
FTC141208SR47MGCA	0.47	29	35	3.8	3.3	4.6	4.2

⑤2012 Series
FTC201265(2.0*1.2*0.65mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FTC201265S1R0MBCA	1.0	78	86	2.6	2.3	2.8	2.5
FTC201265D1R0MGCA	1.0	95	110	2.5	2.2	2.7	2.4
FTC201265S2R2MBCA	2.2	215	230	1.7	1.4	1.8	1.5
FTC201265S2R2MBCB	2.2	230	245	1.7	1.4	1.8	1.5

FTC201208(2.0*1.2*0.8mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FTC201208SR24MBCA	0.24	18	23	6.5	5.9	6.5	6.0
FTC201208SR24MGCA	0.24	18	23	6.5	5.9	6.5	6.0
FTC201208SR33MBCA	0.33	33	45	4.3	4.0	5.2	4.8
FTC201208SR47MBCA	0.47	34	50	3.5	3.3	5.0	4.6
FTC201208SR47MGCA	0.47	34	50	3.5	3.3	5.0	4.6
FTC201208SR47MBCD	0.47	24	28	4.7	4.5	5.2	4.8
FTC201208DR47MGCA	0.47	34	42	4.3	3.9	5.2	4.8
FTC201208SR68MBCA	0.68	50	60	3.7	3.3	4.2	3.7
FTC201208S1R0MBCA	1.0	55	70	3.3	2.9	4.0	3.5
FTC201208S1R0MBCD	1.0	48	55	3.2	2.8	3.2	2.8
FTC201208S1R0MGCD	1.0	48	55	3.2	2.8	3.2	2.8
FTC201208S1R5MBCA	1.5	118	135	2.2	1.9	3.0	2.5
FTC201208S2R2MBCA	2.2	160	185	2.2	1.8	2.6	2.3
FTC201208S4R7MBCA	4.7	285	325	1.7	1.5	1.6	1.4

FTC201210(2.0*1.2*1.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FTC201210SR10MBCA	0.1	8.0	13	7.5	7.0	8.5	8.0
FTC201210SR22MBCA	0.22	16	22	7.1	6.5	7.3	6.8
FTC201210SR24MBCA	0.24	17	23	7.0	6.4	7.2	6.7
FTC201210SR24MGCD	0.24	13	17	7.0	6.4	7.2	6.7
FTC201210SR33MBCA	0.33	24	32	5.5	5.0	6.5	6.0
FTC201210SR47MBCA	0.47	29	36	4.7	4.3	5.5	5.0
FTC201210SR68MBCA	0.68	37	43	4.3	4.0	5.0	4.5
FTC201210S1R0MBCA	1.0	55	63	3.9	3.5	4.0	3.5
FTC201210S1R5MBCA	1.5	76	85	3.1	2.6	3.2	2.7
FTC201210S2R2MBCA	2.2	135	150	2.0	1.7	2.7	2.4

⑥2016 Series
FTC201608(2.0*1.6*0.8mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FTC201608SR22MBCA	0.22	14	19	6.6	5.9	6.1	5.6
FTC201608SR24MBCA	0.24	14	20	6.5	5.8	6.0	5.5
FTC201608SR33MBCA	0.33	18	24	5.5	4.8	5.8	5.3
FTC201608SR47MBCA	0.47	24	27	4.6	4.4	5.5	5.0
FTC201608SR47MGCA	0.47	24	27	4.6	4.4	5.5	5.0
FTC201608SR68MBCA	0.68	39	44	3.8	3.5	4.6	4.2
FTC201608S1R0MBCA	1.0	53	60	3.6	3.3	3.3	3.1
FTC201608S1R0MGCD	1.0	45	52	3.6	3.3	3.8	3.5
FTC201608S1R5MBCA	1.5	73	85	3.1	2.8	3.0	2.8
FTC201608S2R2MBCA	2.2	123	140	2.2	2.0	2.5	2.3
FTC201608S3R3MBCA	3.3	200	220	1.8	1.5	2.1	1.8
FTC201608S4R7MBCA	4.7	260	290	1.6	1.4	1.7	1.5

FTC201610(2.0*1.6*1.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FTC201610SR10MBCA	0.1	7.0	12	8.5	8.0	9.0	8.4
FTC201610SR15MBCA	0.15	8.0	14	7.6	7.0	8.7	8.0
FTC201610SR22MBCA	0.22	11	18	6.9	6.3	8.2	7.5
FTC201610SR24MBCA	0.24	10.5	19	6.8	6.2	8.2	7.4
FTC201610SR33MBCA	0.33	16.5	22	5.7	5.8	7.0	6.0
FTC201610SR33MGCA	0.33	16.5	22	5.7	5.8	7.0	6.0
FTC201610SR47MBCA	0.47	19.5	25	6.0	5.0	6.3	5.5
FTC201610SR47MGCA	0.47	19.5	25	6.0	5.0	6.3	5.5
FTC201610SR68MBCA	0.68	25	32	5.3	4.3	5.2	4.5
FTC201610S1R0MBCA	1.0	35	43	4.5	4.1	4.6	3.8
FTC201610S1R0MGCA	1.0	35	43	4.5	4.1	4.6	3.8
FTC201610S1R0MBCD	1.0	31	36	4.6	4.2	4.7	4.2
FTC201610S1R0MGCD	1.0	31	36	4.6	4.2	4.7	4.2
FTC201610S1R5MBCA	1.5	58	100	3.3	2.3	3.2	2.9
FTC201610S2R2MBCA	2.2	100	130	2.5	2.1	3.0	2.45
FTC201610S2R2MGCA	2.2	100	130	2.5	2.1	3.0	2.45
FTC201610D2R2MBCA	2.2	115	125	2.5	2.2	3.3	3.0
FTC201610S3R3MBCA	3.3	140	170	1.7	1.5	2.3	2.0
FTC201610S4R7MBCA	4.7	190	220	1.6	1.4	2.0	1.8
FTC201610S4R7MGCA	4.7	190	220	1.6	1.4	2.0	1.8

FTC201612(2.0*1.6*1.2mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FTC201612SR10MBCA	0.1	4.0	6.0	12	10	13	11.5
FTC201612SR24MBCA	0.24	9.0	11	9.1	8.6	9.2	8.7
FTC201612SR33MBCA	0.33	10	15	7.7	7.2	7.8	7.3
FTC201612SR47MBCA	0.47	13	17	6.7	6.0	6.7	6.0
FTC201612S1R5MBCA	1.5	40	50	4.0	3.5	4.0	3.5

⑦2520 Series
FTC252010S(2.5*2.0*1.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FTC252010SR22MBCA	0.22	12	17	6.8	6.5	8.6	7.9
FTC252010SR22MGCA	0.22	12	17	6.8	6.5	8.6	7.9
FTC252010SR24MBCA	0.24	12	17.5	6.7	6.4	8.5	7.8
FTC252010SR33MBCA	0.33	13	19	6.5	6.2	7.6	7.2
FTC252010SR33MGCA	0.33	13	19	6.5	6.2	7.6	7.2
FTC252010SR47MBCA	0.47	15	22	6.1	5.6	7.0	6.5
FTC252010SR47MGCA	0.47	15	22	6.1	5.6	7.0	6.5
FTC252010SR68MBCA	0.68	23	27	5.6	5.0	5.9	5.5
FTC252010S1R0MBCA	1.0	22.5	30	5.4	4.1	5.3	4.8
FTC252010S1R0MGCA	1.0	22.5	30	5.4	4.1	5.3	4.8
FTC252010S1R5MBCA	1.5	45	55	3.4	3.0	4.3	3.9
FTC252010S1R5MGCA	1.5	45	55	3.4	3.0	4.3	3.9
FTC252010S2R2MBCA	2.2	60.5	70	2.5	2.1	3.5	3.0
FTC252010S2R2MGCA	2.2	60.5	70	2.5	2.1	3.5	3.0
FTC252010S3R3MBCA	3.3	86	100	2.5	2.1	2.8	2.5
FTC252010S3R3MGCA	3.3	86	100	2.5	2.1	2.8	2.5
FTC252010S4R7MBCA	4.7	160	180	2.0	1.6	2.6	2.0
FTC252010S4R7MGCA	4.7	160	180	2.0	1.6	2.6	2.0
FTC252010S4R7MBCD	4.7	145	160	2.0	1.6	2.6	2.0
FTC252010S6R8MBCA	6.8	270	320	1.6	1.4	2.4	1.9
FTC252010S100MBCA	10.0	500	560	1.05	0.95	1.55	1.4
FTC252010S100MGCA	10.0	500	560	1.05	0.95	1.55	1.4
FTC252010S220MGCA	22.0	1100	1300	0.85	0.6	1.1	0.9

FTC252012S(2.5*2.0*1.2mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FTC252012SR10MBCA	0.1	6	10	12	10.5	13.5	12.5
FTC252012SR15MBCA	0.15	7	11	11.5	10	13.0	12.0
FTC252012SR22MBCA	0.22	9	14	8.2	7.6	9.6	9.0
FTC252012SR24MBCA	0.24	10	15	8.0	6.4	9.5	8.8
FTC252012SR24MGCA	0.24	10	15	8.0	6.4	9.5	8.8
FTC252012SR33MBCA	0.33	11	17	6.8	6.1	8.6	7.8
FTC252012SR47MBCA	0.47	13	19	6.5	6.0	7.5	6.8
FTC252012SR47MBCD	0.47	11	13	8.0	7.5	8.5	8.0
FTC252012SR47MGCD	0.47	11	13	8.0	7.5	8.5	8.0
FTC252012SR68MBCA	0.68	17	23	6.3	5.0	6.5	6.0
FTC252012S1R0MBCA	1.0	33	42	4.4	3.6	5.6	4.5
FTC252012S1R0MBCD	1.0	16	22	5.2	4.5	6.5	6.0
FTC252012S1R0MGCD	1.0	16	22	5.2	4.5	6.5	6.0
FTC252012S1R5MBCA	1.5	44	56	3.7	3.2	4.5	3.8
FTC252012S1R5MBCD	1.5	27	32	4.6	4.2	4.7	4.4
FTC252012S1R5MBCE	1.5	48	55	4.4	4.0	4.3	3.9
FTC252012S1R5MGCA	1.5	44	56	3.7	3.2	4.5	3.8
FTC252012S2R2MBCA	2.2	55	79	3.2	2.7	3.8	3.3
FTC252012S2R2MGCA	2.2	55	79	3.2	2.7	3.8	3.3
FTC252012S3R3MBCA	3.3	80	125	2.3	1.8	3.0	2.5
FTC252012S4R7MBCA	4.7	145	180	1.8	1.5	2.4	2.1
FTC252012S4R7MGCA	4.7	145	180	1.8	1.5	2.4	2.1
FTC252012S6R8MBCA	6.8	225	270	1.6	1.3	2.2	1.7
FTC252012S100MBCA	10.0	330	400	1.2	1.05	1.6	1.45
FTC252012S100MGCA	10.0	330	400	1.2	1.05	1.6	1.45

FTC252075S(2.5*2.0*0.75mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FTC252075S2R2MGCA	2.2	78	90	2.3	2.0	2.6	2.4
FTC252075S100MGCA	10.0	487	530	1.1	0.9	1.1	0.9

⑧3225 Series

FTC322510S(3.2*2.5*1.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FTC322510SR47MBCA	0.47	17	22	6.4	5.9	8.3	7.6
FTC322510SR68MBCA	0.68	22	28	6.2	5.7	7.5	7.0
FTC322510S1R0MBCA	1.0	25	30	5.4	4.9	6.0	5.3
FTC322510S1R5MBCA	1.5	34	42	4.0	3.6	5.0	4.4
FTC322510S2R2MBCA	2.2	55	66	3.7	3.4	4.0	3.5
FTC322510S3R3MBCA	3.3	105	120	2.7	2.3	3.7	3.3
FTC322510S4R7MBCA	4.7	125	140	2.3	1.9	2.8	2.5

FTC322512S(3.2*2.5*1.2mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FTC322512SR10MBCA	0.10	5.2	7.0	12	11	18	16.5
FTC322512SR22MBCA	0.22	6.6	10	9..2	8.7	11.5	11
FTC322512SR22MGCA	0.22	6.6	10	9..2	8.7	11.5	11
FTC322512SR24MBCA	0.24	7.0	12	9.0	8.5	11	10.5
FTC322512SR33MBCA	0.33	9.0	14	8.4	8.1	10	9.5
FTC322512SR47MBCA	0.47	14	19	7.5	7.2	8.6	8.2
FTC322512SR47MGCA	0.47	14	19	7.5	7.2	8.6	8.2
FTC322512SR47MBCD	0.47	11	14	7.5	7.2	8.6	8.2
FTC322512SR68MBCA	0.68	18	23	7.3	6.8	8.1	7.7
FTC322512SR68MBCD	0.68	12	15	7.0	6.5	8.0	7.5
FTC322512S1R0MBCA	1.0	26	30	5.3	4.8	6.6	5.8

FTC322512S1R0MGCA	1.0	26	30	5.3	4.8	6.6	5.8
FTC322512S1R0MBCD	1.0	18	21	5.5	5.0	7.7	7.0
FTC322512S1R5MBCA	1.5	37	44	4.7	4.3	5.1	4.7
FTC322512S2R2MBCA	2.2	58	70	3.6	3.0	4.6	4.2
FTC322512S2R2MBCD	2.2	42	50	3.8	3.5	5.0	4.5
FTC322512S2R2MGCD	2.2	42	50	3.8	3.5	5.0	4.5
FTC322512S3R3MBCA	3.3	75	95	2.9	2.5	3.7	3.2
FTC322512S3R3MGCA	3.3	75	95	2.9	2.5	3.7	3.2
FTC322512S4R7MBCA	4.7	115	135	2.3	2.0	2.9	2.6

FTC322520S(3.2*2.5*2.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FTC322520SR33MBCA	0.33	8.0	9.6	8.5	8.0	11.0	10
FTC322520SR47MBCA	0.47	9.0	10.5	8.0	7.5	10.0	9.0
FTC322520SR68MBCA	0.68	12.5	14.5	7.0	6.5	8.6	7.5
FTC322520S1R0MBCA	1.0	15.0	17.5	6.5	6.0	7.5	6.5
FTC322520S1R5MBCA	1.5	24.5	28.0	5.5	5.0	6.3	5.5
FTC322520S2R2MBCA	2.2	36.5	44.0	5.0	4.5	5.4	4.8
FTC322520S3R3MBCA	3.3	54.0	63.0	3.2	2.7	4.5	4.0
FTC322520S4R7MBCA	4.7	82.0	95.0	2.8	2.4	3.5	3.0

⑨3030 Series
FTC303012(3.0*3.0*1.2mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FTC303012D100MBCA	10.0	192	220	2.3	1.9	2.3	2.0

FTC303015(3.0*3.0*1.5mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FTC303015D220MBCA	22.0	580	700	1.2	1.0	1.6	1.2

FTC303018(3.0*3.0*1.8mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FTC303018DR22MBCA	0.22	5.5	7.0	10.0	9.0	17	16
FTC303018D4R7MBCA	4.7	72	87	3.4	3.0	4.7	4.2

FTC303020(3.0*3.0*2.0mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FTC303020DR50MBCA	0.5	9.0	12	9.0	8.0	15	13
FTC303020DR68MBCA	0.68	13	19	6.8	6.2	8.3	7.6
FTC303020D1R0MBCA	1.0	14	20	6.5	6.0	8.0	7.3
FTC303020D1R5MBCA	1.5	19	30	5.0	4.5	5.5	5.0
FTC303020D2R2MBCA	2.2	37	45	4.7	4.3	6.0	5.5
FTC303020D100MBCA	10.0	135	170	2.5	2.0	3.8	3.3

⑩4040 Series

FTC404012(4.0*4.0*1.2mm)

P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FTC404012S1R0MBCA	1.0	21	25	6.3	5.5	11	10

FTC404030(4.0*4.0*3.0mm)

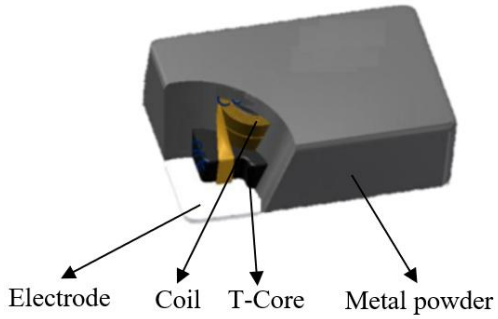
P/N	L0(μH) @(0A) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
FTC404030S4R7MGCA	4.7	41	46	4.3	4.0	7.0	6.0

Test remarks

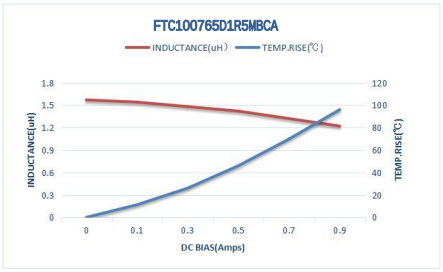
Note 1.：All test data is referenced to 25 ℃ ambient.
Note 2.：Test Condition:1MHz, 1.0Vrms.
Note 3.：Irms:DC current (A) that will cause an approximate △T of 40 ℃.
Note 4.： Isat:DC current (A) that will cause L0 to drop approximately 30%.
Note 5.： Operating Temperature Range -55℃ to + 125℃.
Note 6.：The part temperature (ambient + temp rise) should not exceed 125 under ℃ the worst case operating conditions. Circuit design,
Note 7.：The rated current as listed is either the saturation current or the heating current depending on which value is lower.
Note 8 ： For FTC series inductors,absolute maximum voltage: DC 20V

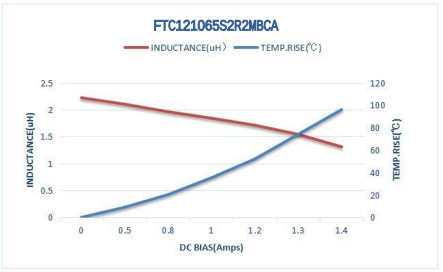
6. Structure

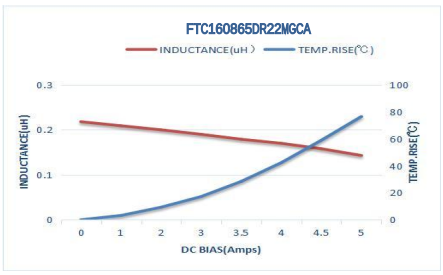
component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.

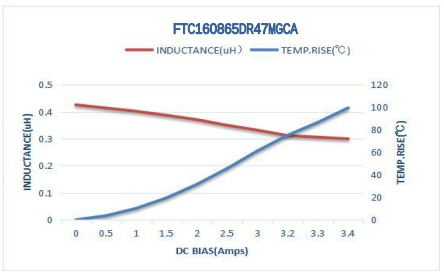


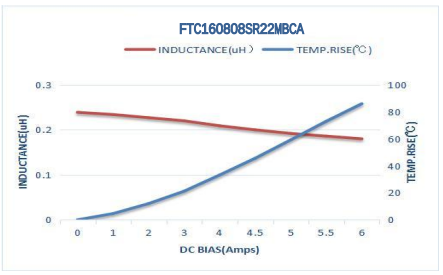
7. Current Characteristic

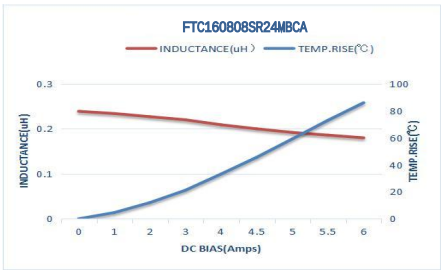


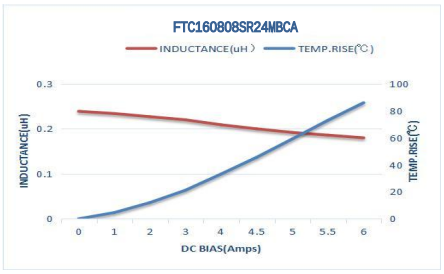


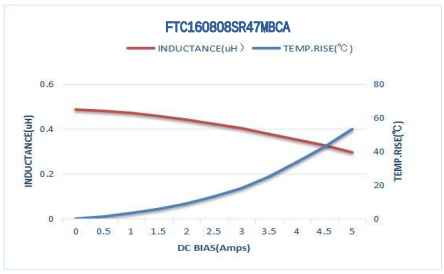


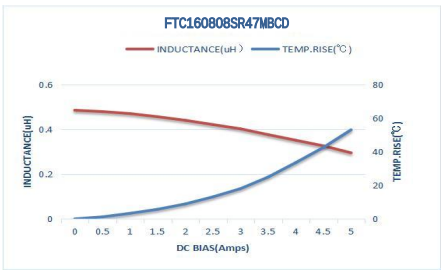


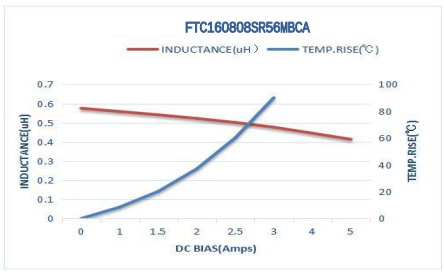


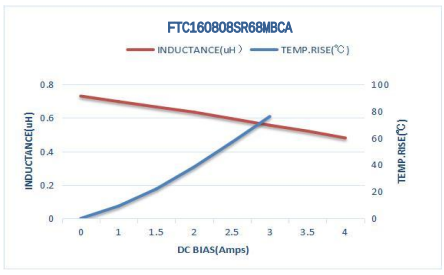


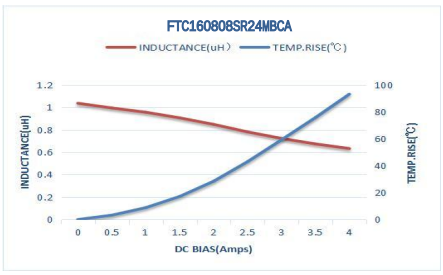


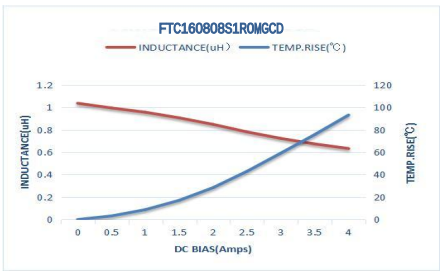


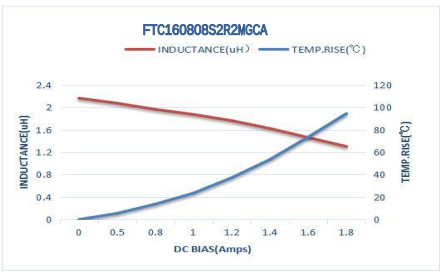


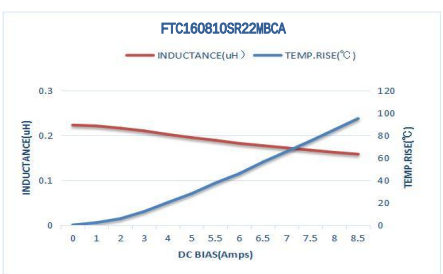


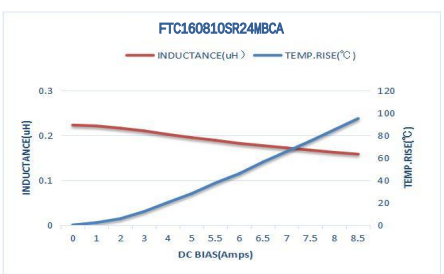


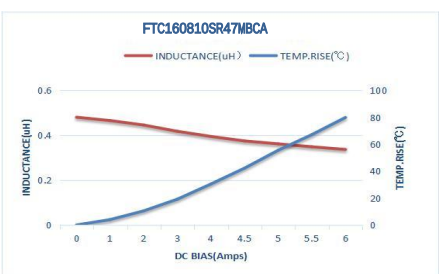


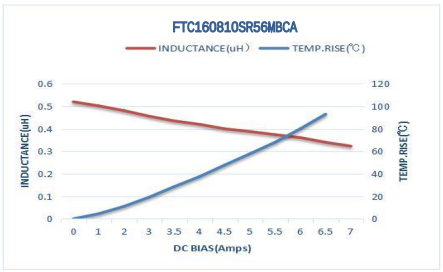








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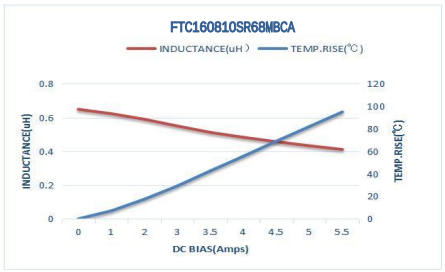
TEMP.RISE(℃)
DC BIAS(Amps)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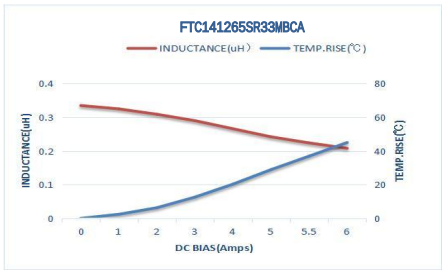
DC BIAS(Amps)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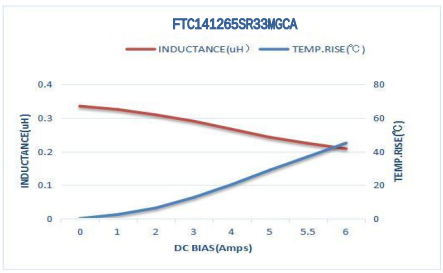
TEMP.RISE(℃)
DC BIAS(Amps)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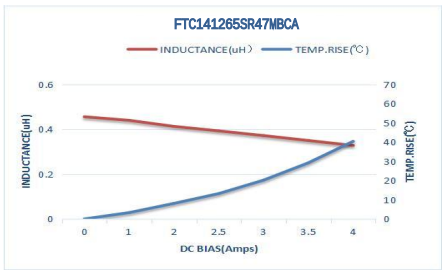
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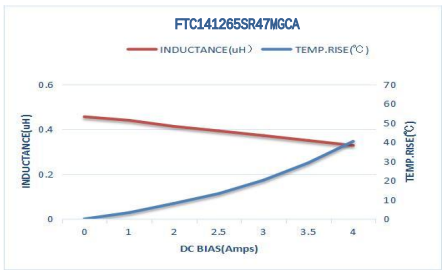
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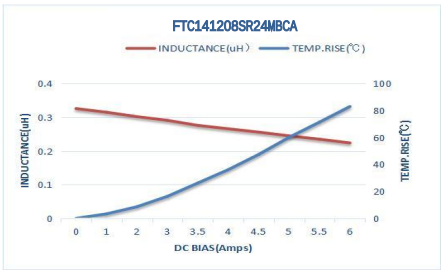
DC BIAS(Amps)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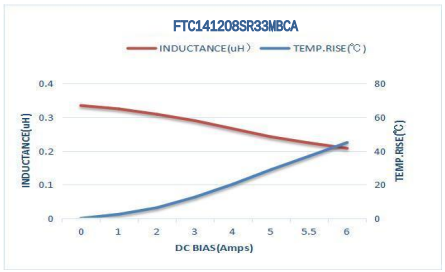
DC BIAS(Amps)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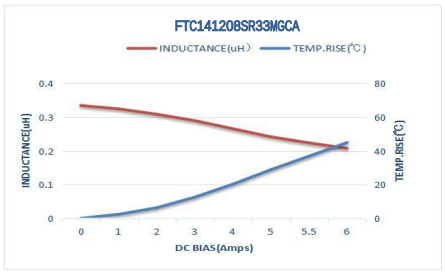
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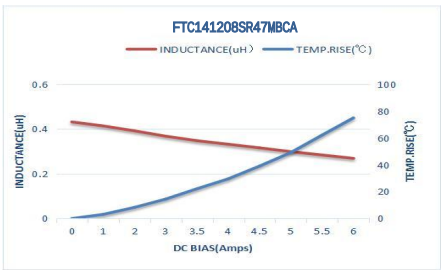
DC BIAS(Amps)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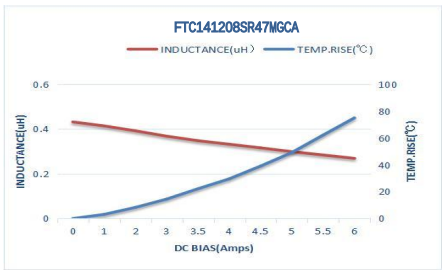
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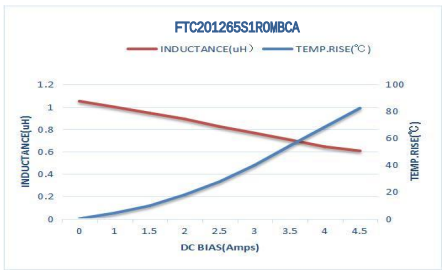
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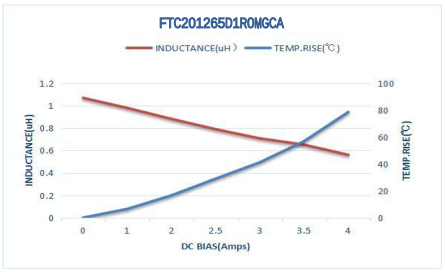
TEMP.RISE(℃)
DC BIAS(Amps)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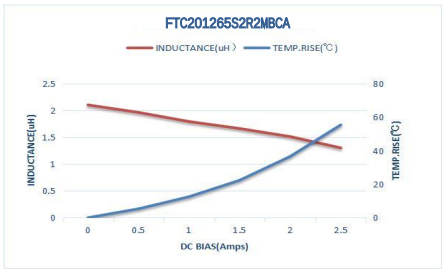
INDUCTANCE(uH)
TEMP.RISE(℃)
DC BIAS(Amps)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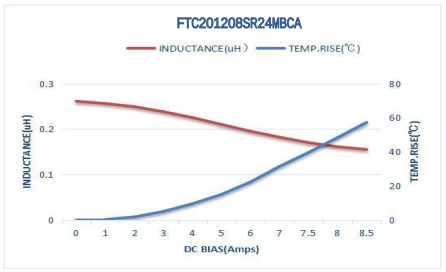
INDUCTANCE(uH)
TEMP.RISE(℃)
DC BIAS(Amps)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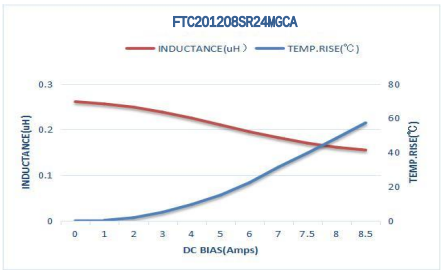
TEMP.RISE(℃)
DC BIAS(Amps)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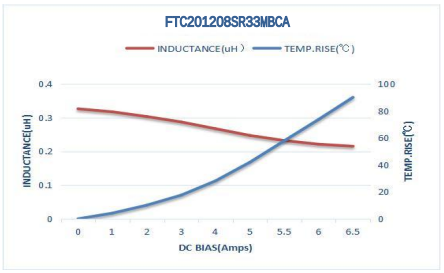
TEMP.RISE(℃)
DC BIAS(Amps)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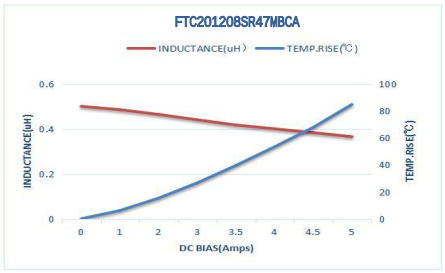
DC BIAS(Amps)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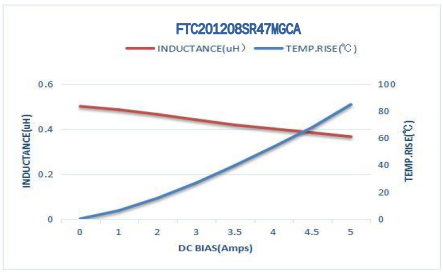
DC BIAS(Amps)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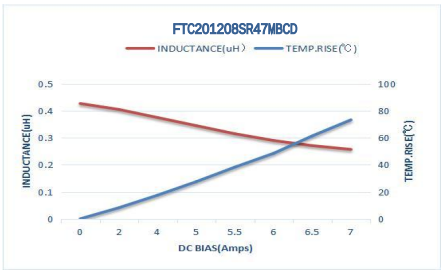
INDUCTANCE(uH)
TEMP.RISE(℃)
DC BIAS(Amps)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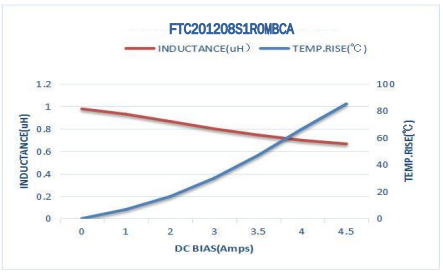
TEMP.RISE(℃)
DC BIAS(Amps)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INDUCTANCE(uH)
TEMP.RISE(℃)
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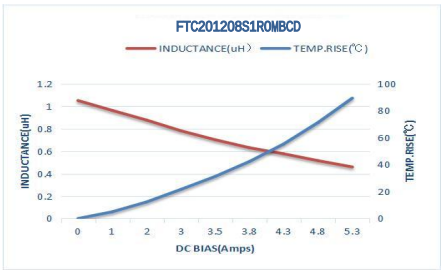
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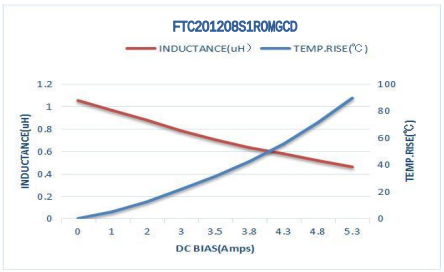
TEMP.RISE(℃)
INDUCTANCE(uH)
TEMP.RISE(℃)
DC BIAS(Amps)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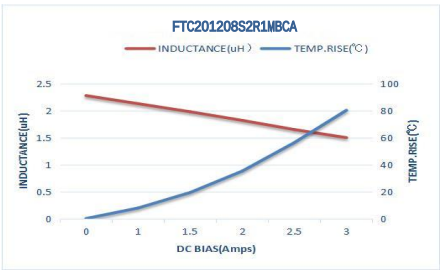
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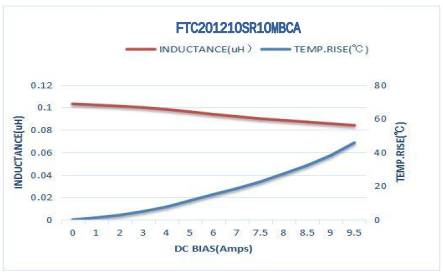
INDUCTANCE(uH)
TEMP.RISE(℃)
DC BIAS(Amps)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INDUCTANCE(uH)
TEMP.RISE(℃)
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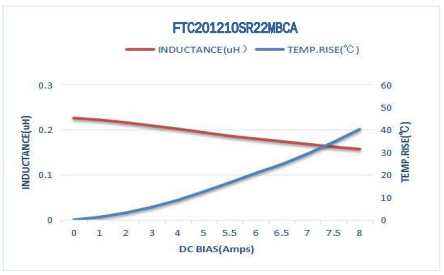
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INDUCTANCE(uH)
TEMP.RISE(℃)
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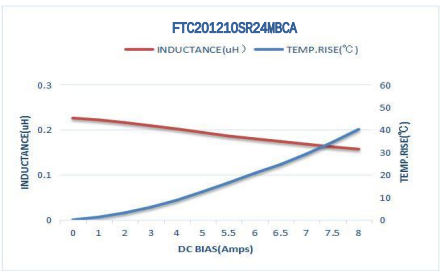
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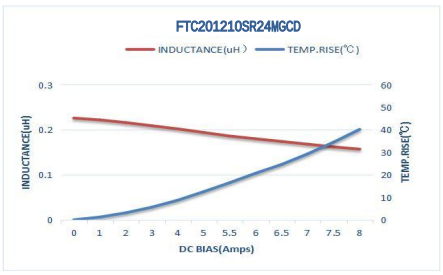
TEMP.RISE(℃)
DC BIAS(Amps)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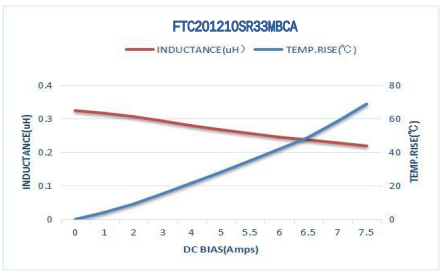
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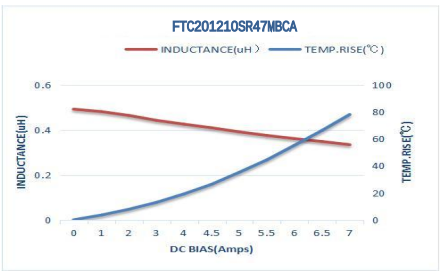
TEMP.RISE(℃)
DC BIAS(Amps)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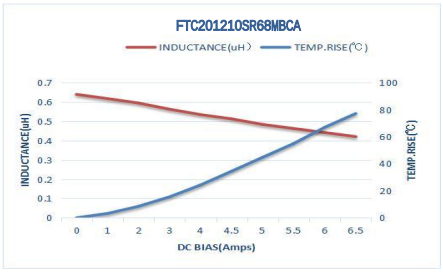
TEMP.RISE(℃)
DC BIAS(Amps)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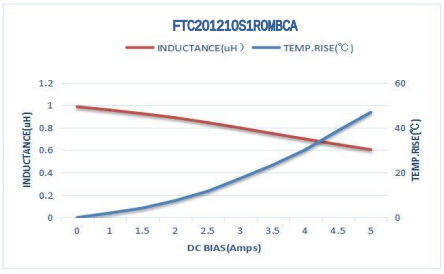
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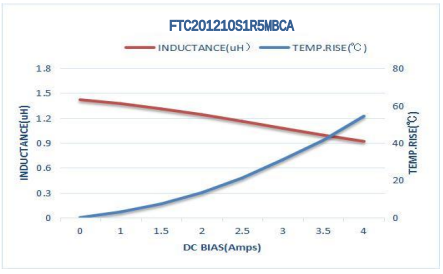
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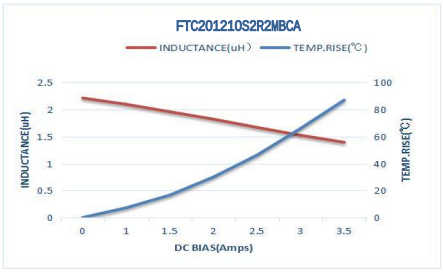
DC BIAS(Amps)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TEMP.RISE(℃)
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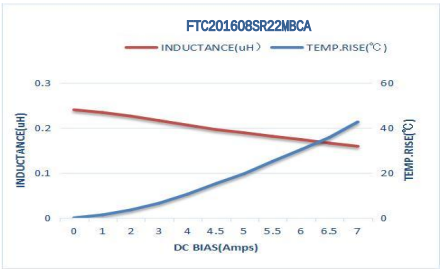
TEMP.RISE(℃)
DC BIAS(Amps)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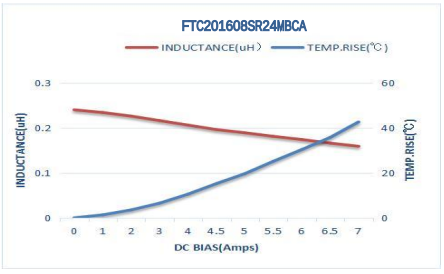
DC BIAS(Amps)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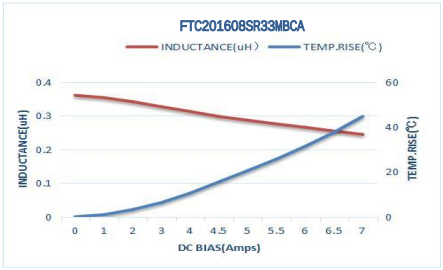
TEMP.RISE(℃)
DC BIAS(Amps)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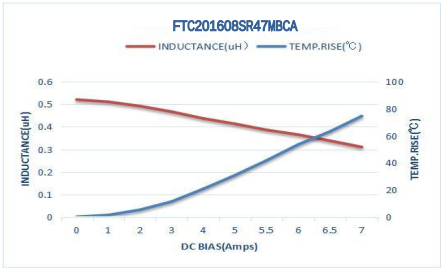
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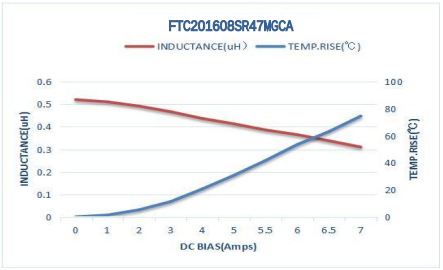
DC BIAS(Amps)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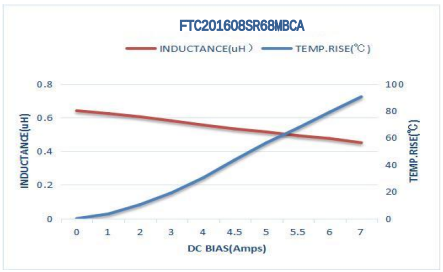
INDUCTANCE(uH)
TEMP.RISE(℃)
DC BIAS(Amps)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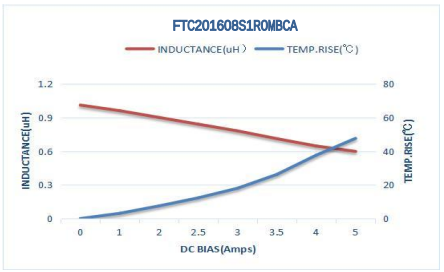
DC BIAS(Amps)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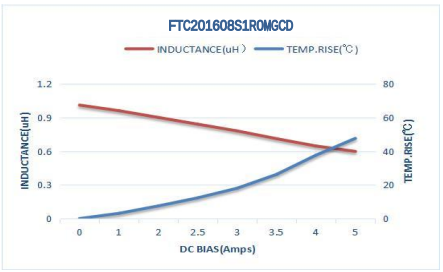
TEMP.RISE(℃)
DC BIAS(Amps)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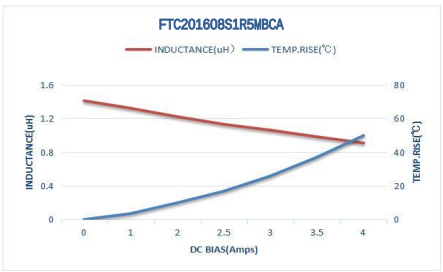
TEMP.RISE(℃)
DC BIAS(Amps)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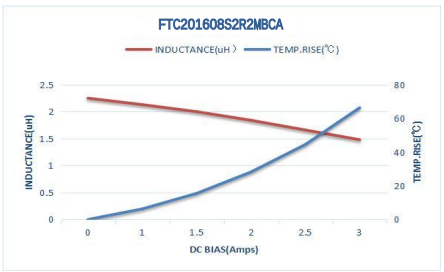
TEMP.RISE(℃)
DC BIAS(Amps)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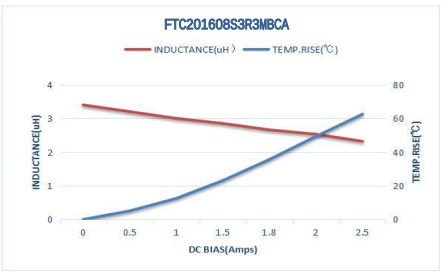
INDUCTANCE(uH)
TEMP.RISE(℃)
DC BIAS(Amps)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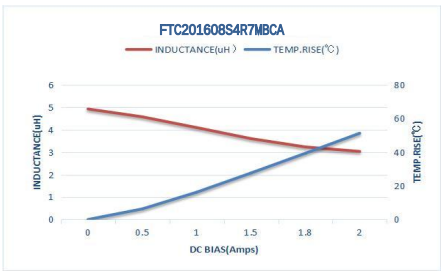
INDUCTANCE(uH)
TEMP.RISE(℃)
DC BIAS(Amps)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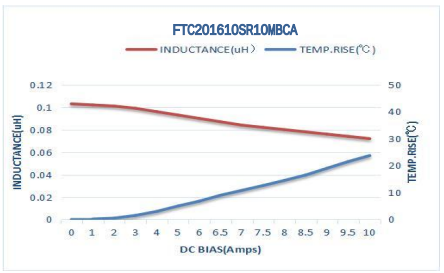
DC BIAS(Amps)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TEMP.RISE(℃)
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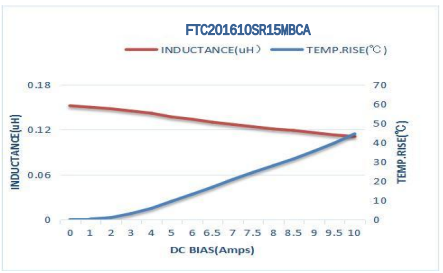
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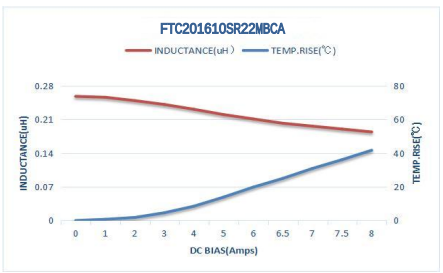
DC BIAS(Amps)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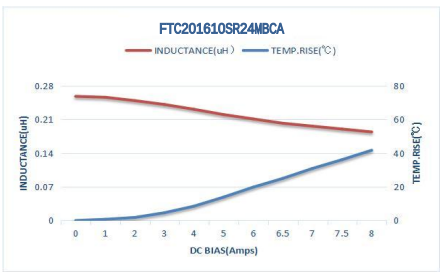
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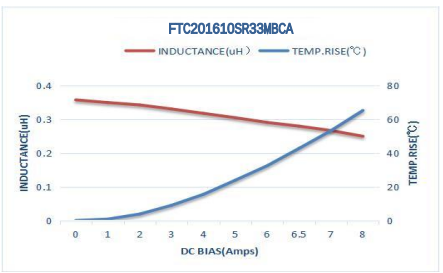
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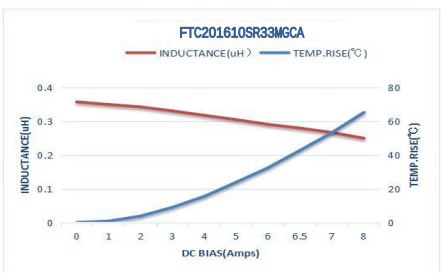
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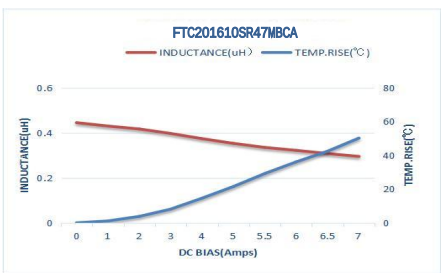
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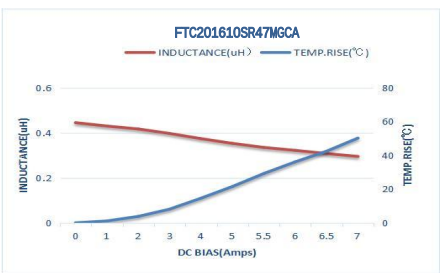
TEMP.RISE(℃)
DC BIAS(Amps)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INDUCTANCE(uH)
TEMP.RISE(℃)
DC BIAS(Amps)

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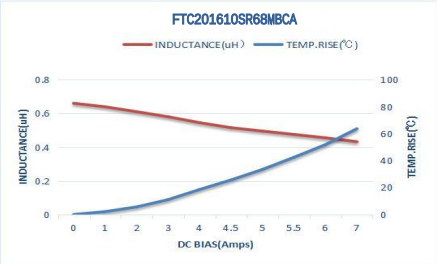

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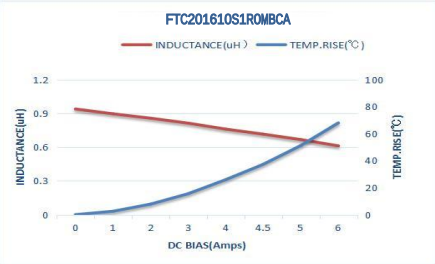

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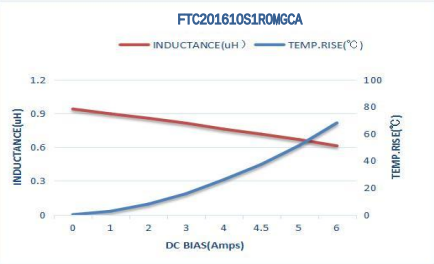

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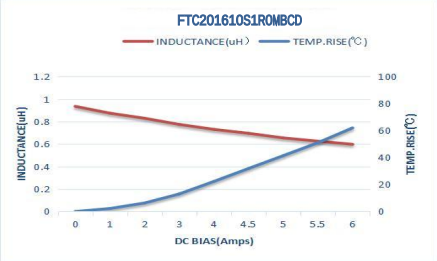

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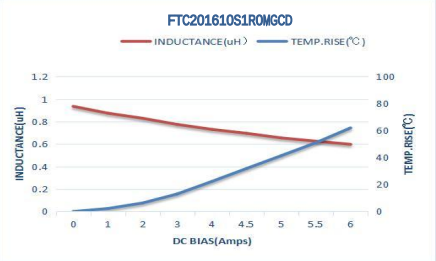

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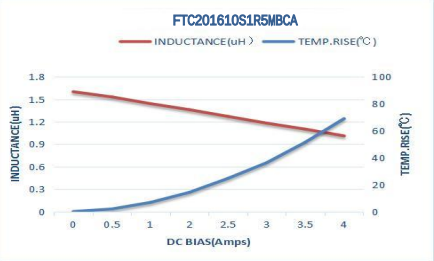

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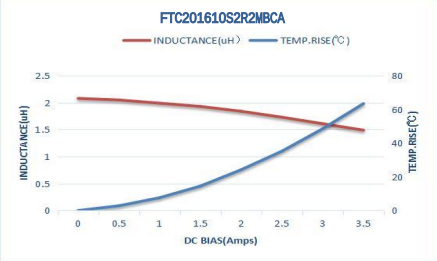

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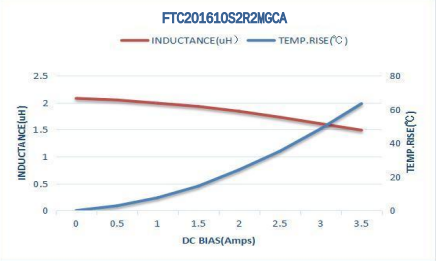

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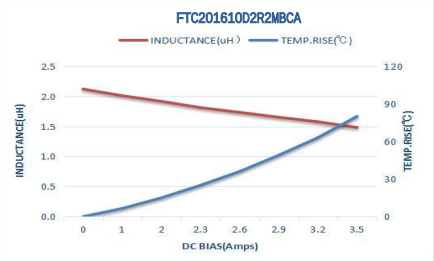

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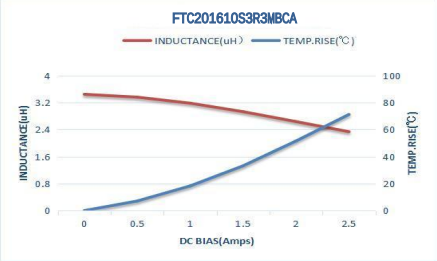

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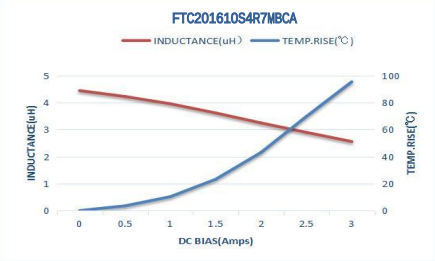

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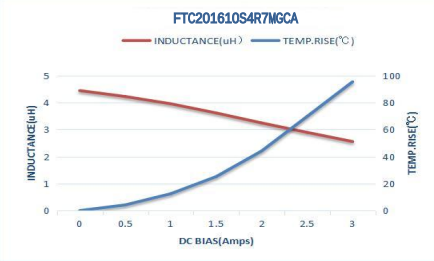

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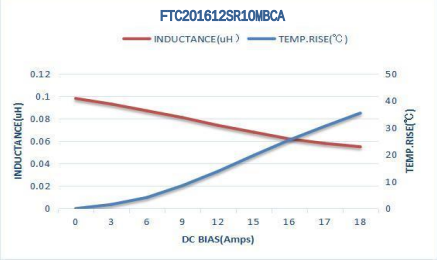

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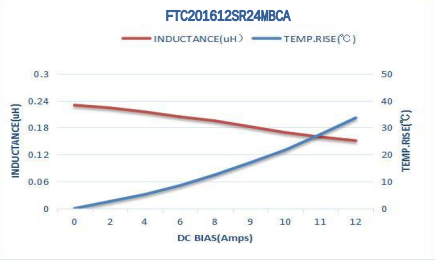

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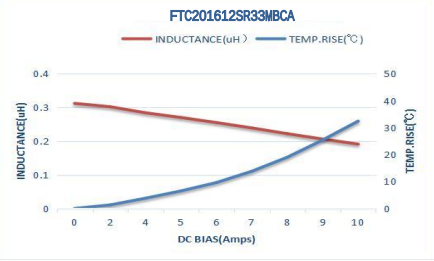

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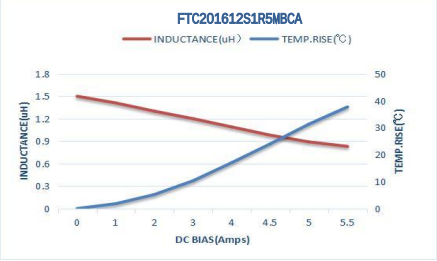

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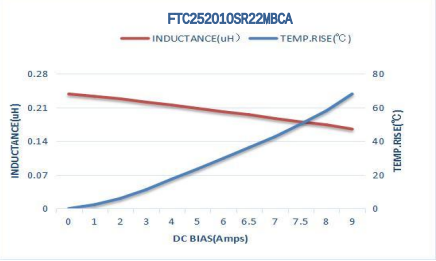

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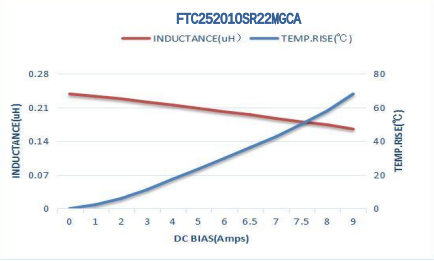

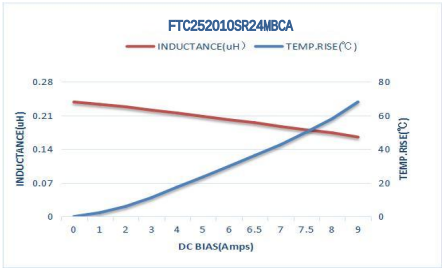
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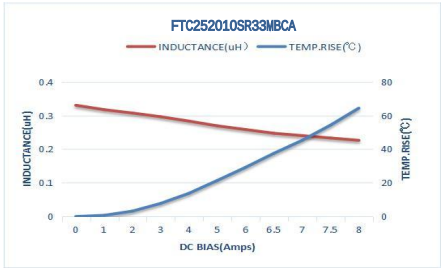
TEMP.RISE(℃)
DC BIAS(Amps)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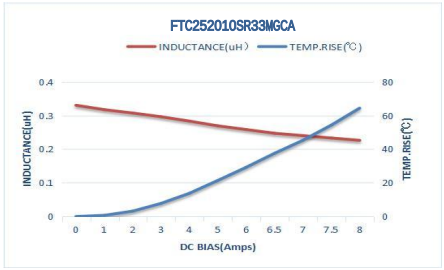
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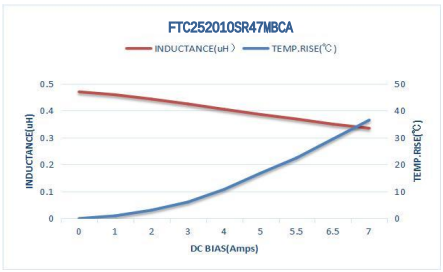
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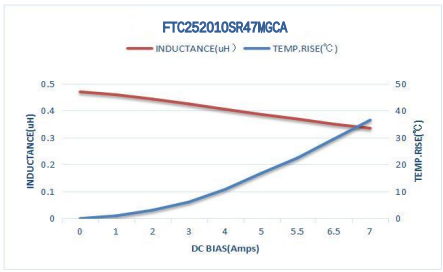
TEMP.RISE(℃)
DC BIAS(Amps)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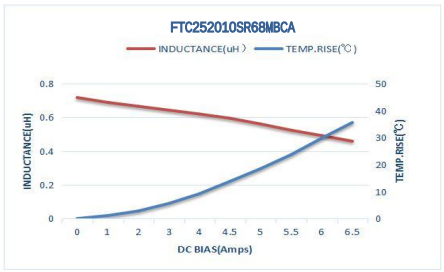
TEMP.RISE(℃)
DC BIAS(Amps)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INDUCTANCE(uH)
TEMP.RISE(℃)
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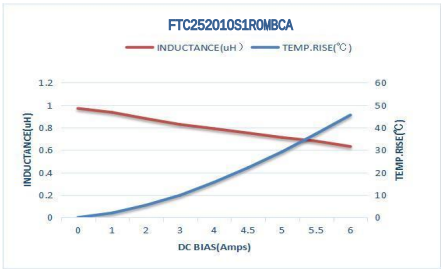
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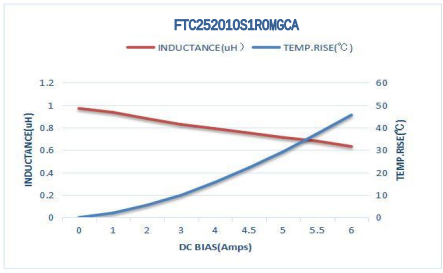
INDUCTANCE(uH)
TEMP.RISE(℃)
DC BIAS(Amps)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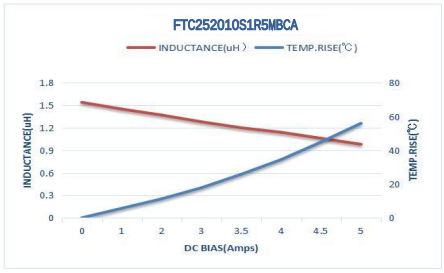
TEMP.RISE(℃)
DC BIAS(Amps)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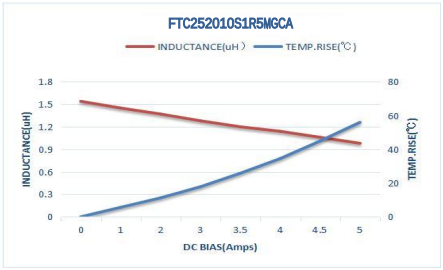
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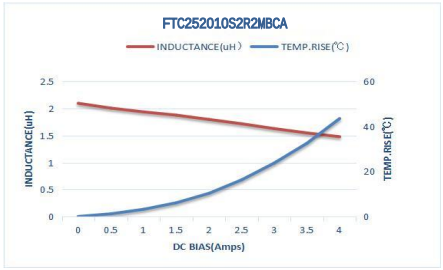
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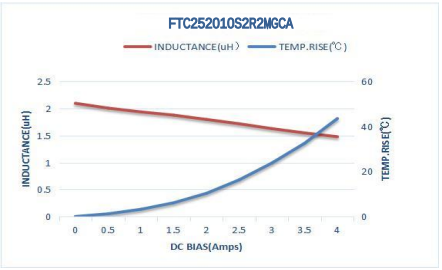
DC BIAS(Amps)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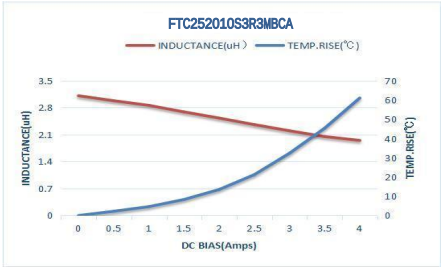
TEMP.RISE(℃)
DC BIAS(Amps)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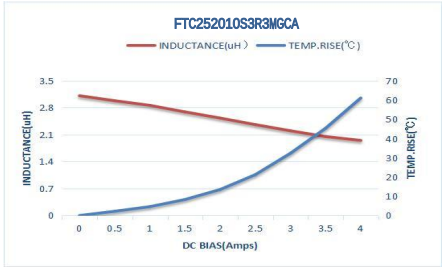
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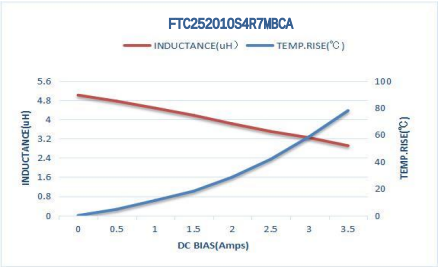
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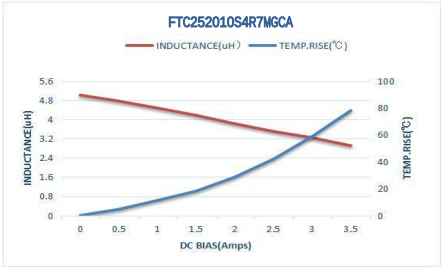
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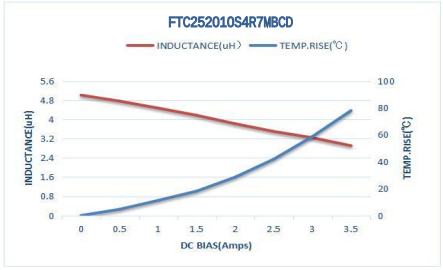
TEMP.RISE(℃)
DC BIAS(Amps)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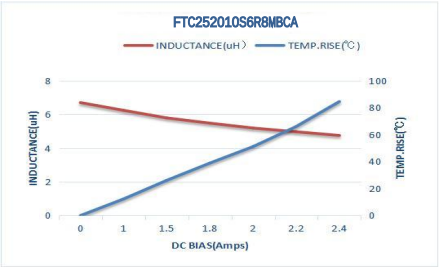
INDUCTANCE(uH)
TEMP.RISE(℃)
DC BIAS(Amps)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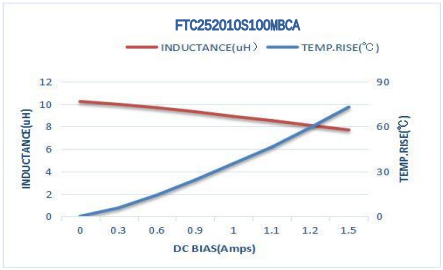
INDUCTANCE(uH)
TEMP.RISE(℃)
DC BIAS(Amps)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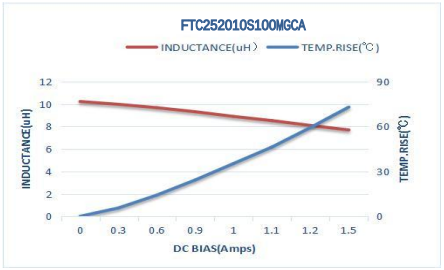
INDUCTANCE(uH)
TEMP.RISE(℃)
DC BIAS(Amps)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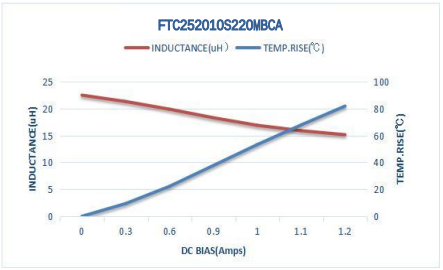
TEMP.RISE(℃)
DC BIAS(Amps)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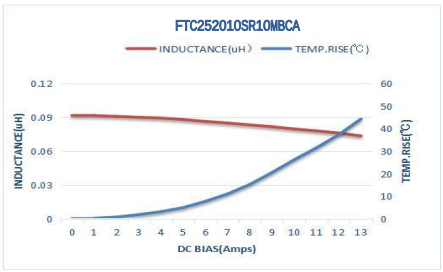
TEMP.RISE(℃)
DC BIAS(Amps)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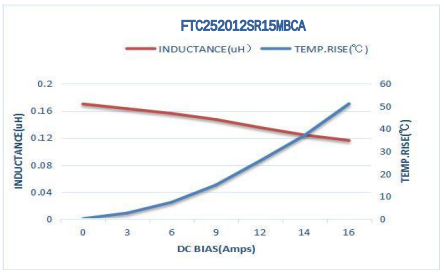
INDUCTANCE(uH)
TEMP.RISE(℃)
DC BIAS(Amps)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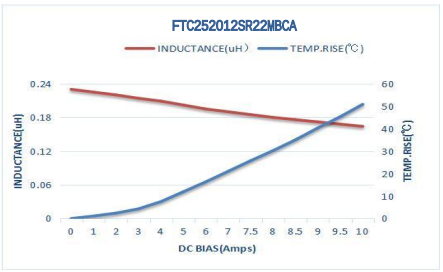
TEMP.RISE(℃)
DC BIAS(Amps)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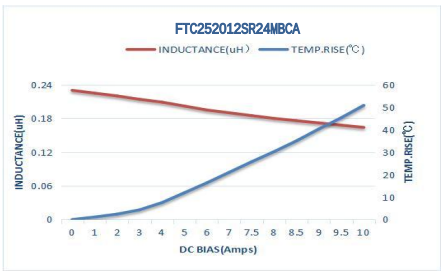
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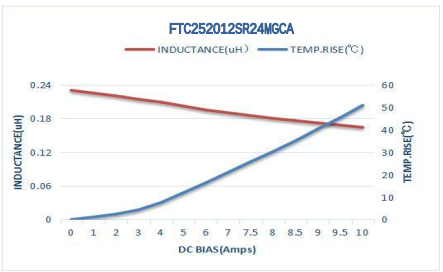
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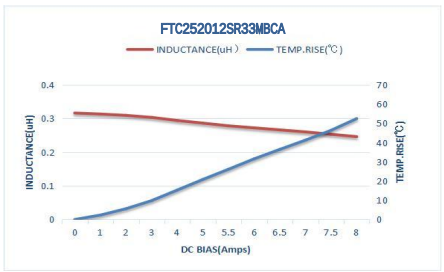
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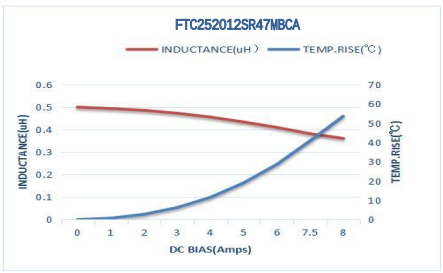
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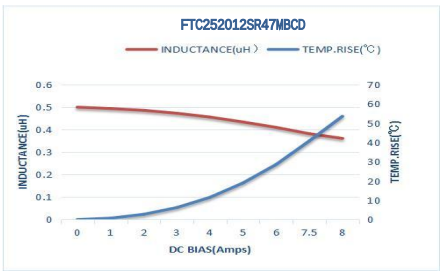
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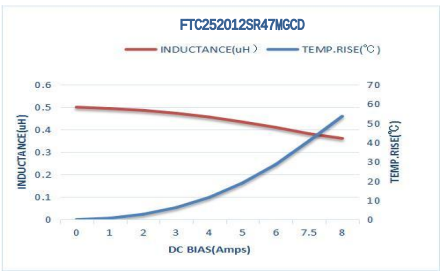
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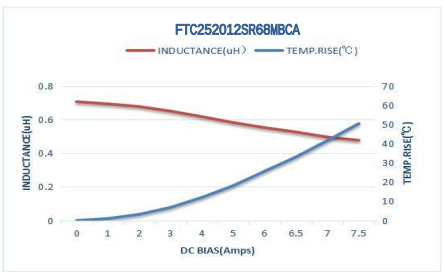
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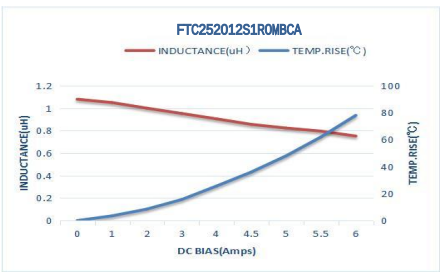
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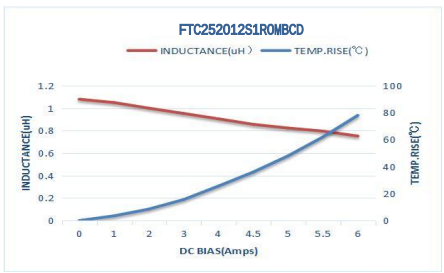
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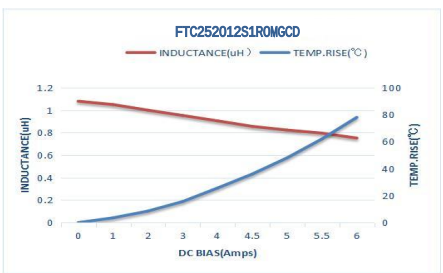
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INDUCTANCE(uH)
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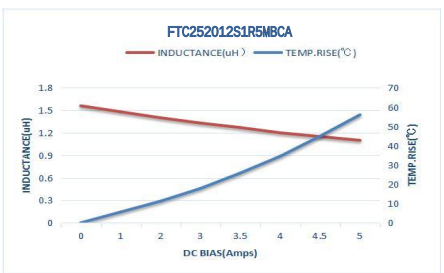
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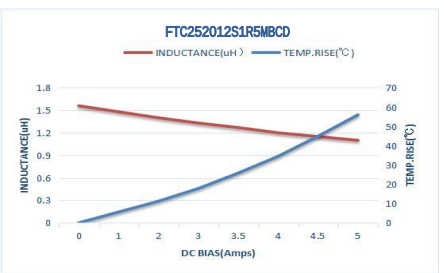
INDUCTANCE(uH)
TEMP.RISE(℃)
DC BIAS(Amps)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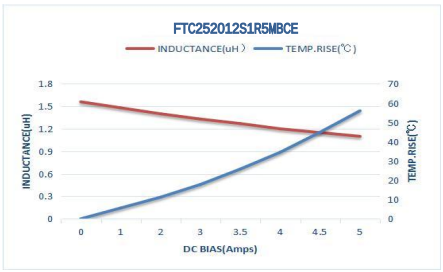
TEMP.RISE(℃)
DC BIAS(Amps)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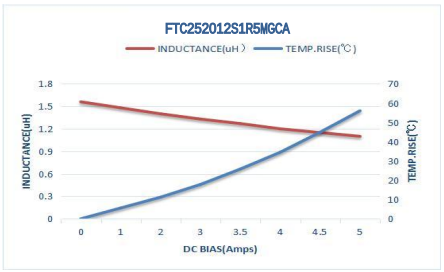
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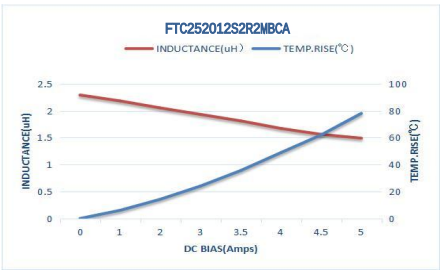
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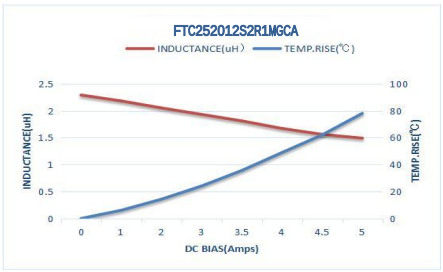
DC BIAS(Amps)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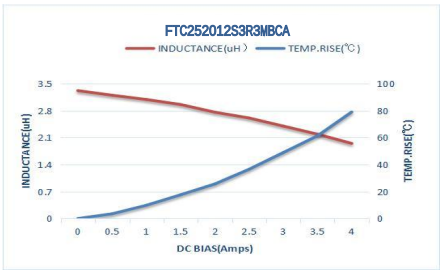
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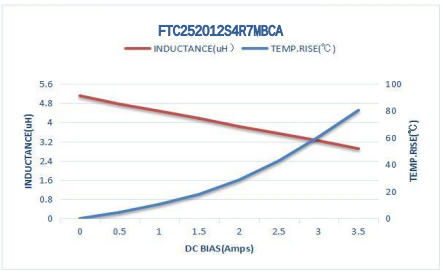
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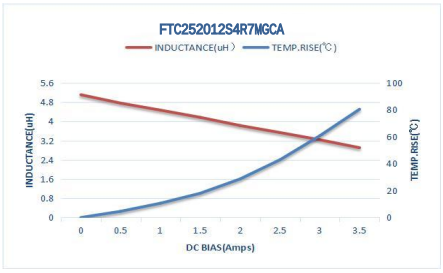
DC BIAS(Amps)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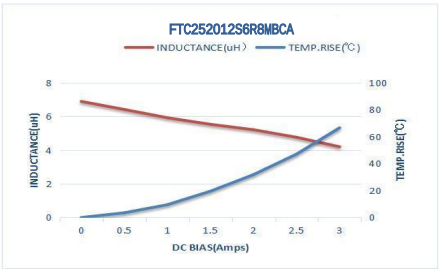
TEMP.RISE(℃)
DC BIAS(Amps)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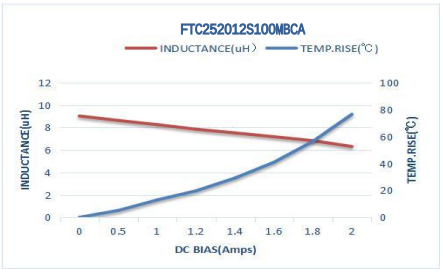
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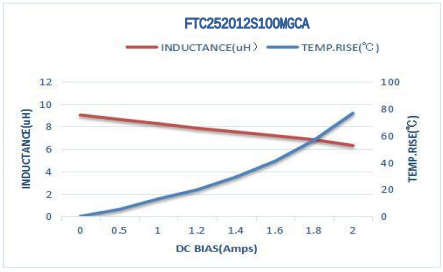
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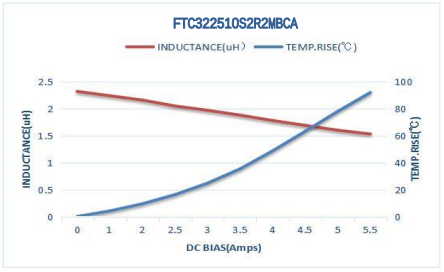
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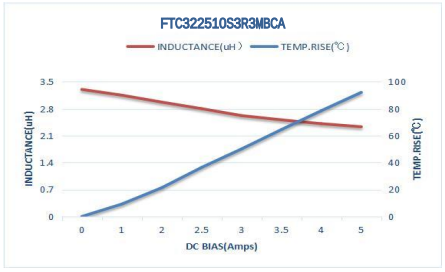
TEMP.RISE(℃)
DC BIAS(Amps)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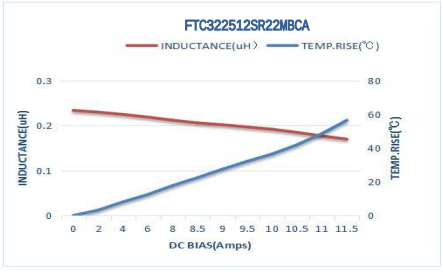
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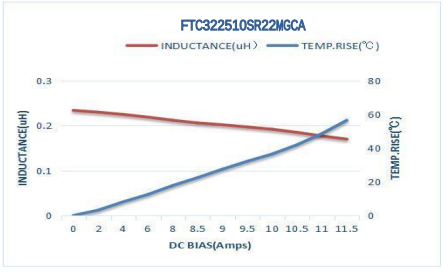
TEMP.RISE(℃)
DC BIAS(Amps)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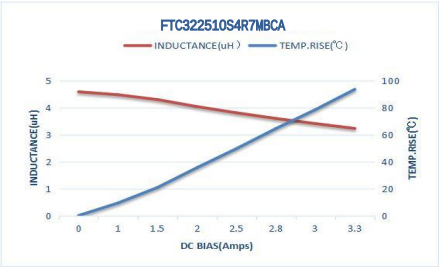
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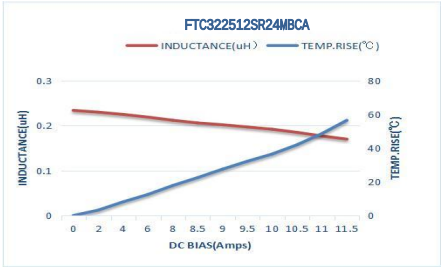
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TEMP.RISE(℃)
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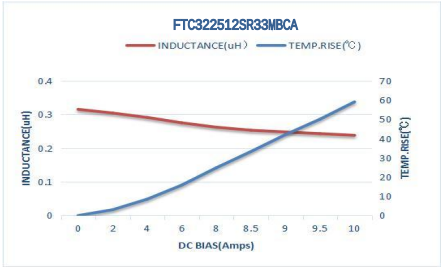
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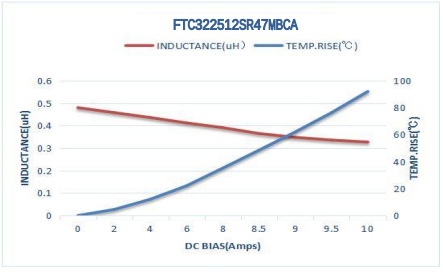
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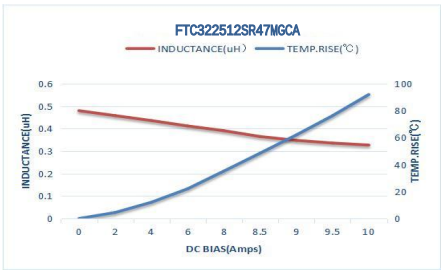
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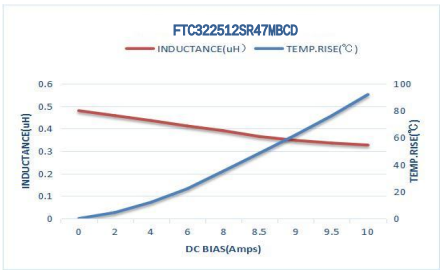
DC BIAS(Amps)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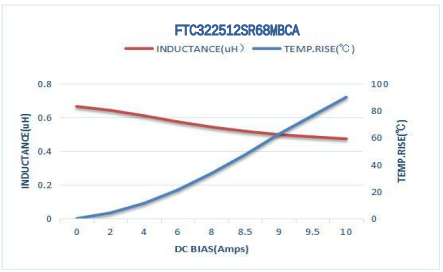
DC BIAS(Amps)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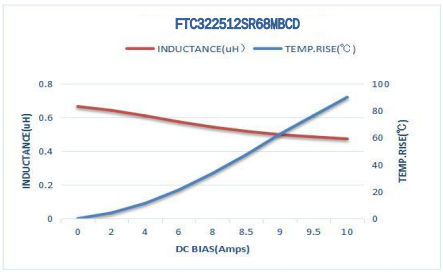
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TEMP.RISE(℃)
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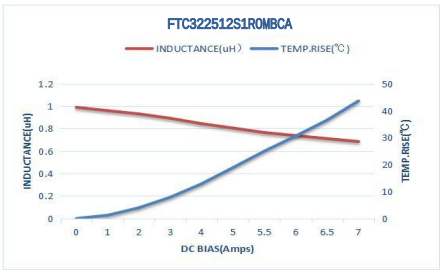
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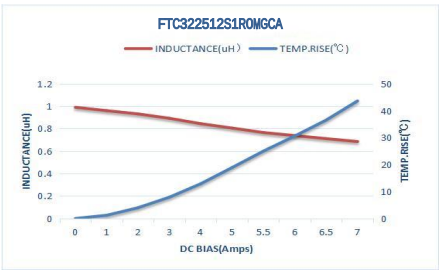
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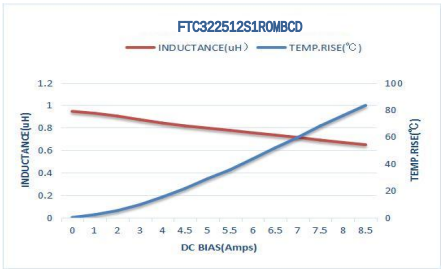
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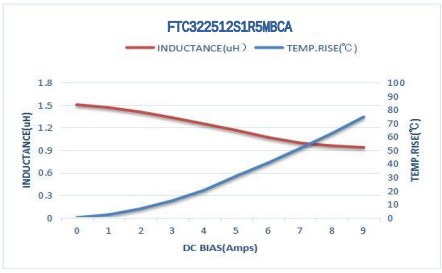
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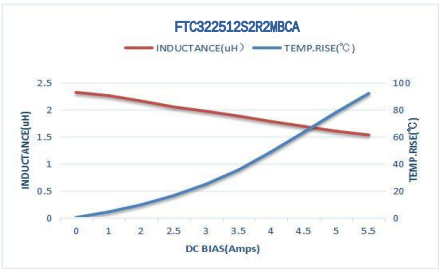
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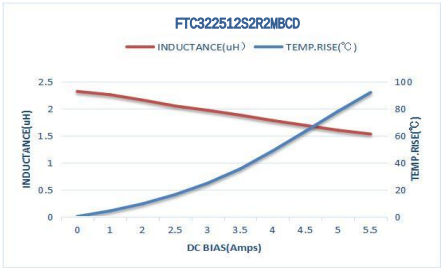
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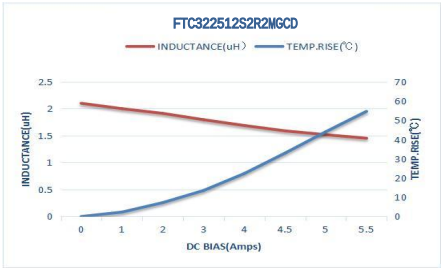
DC BIAS(Amps)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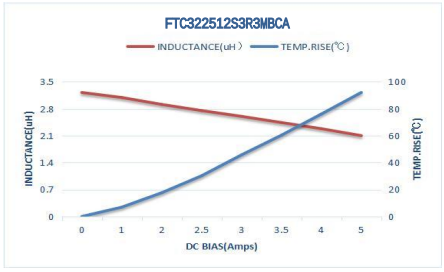
TEMP.RISE(℃)
DC BIAS(Amps)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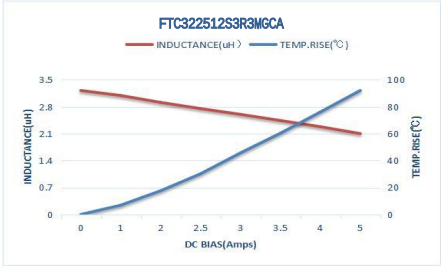
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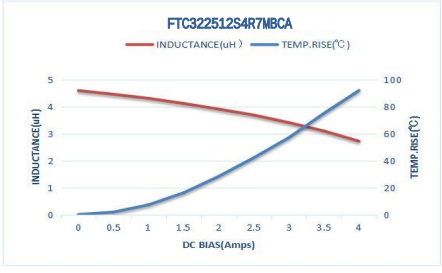
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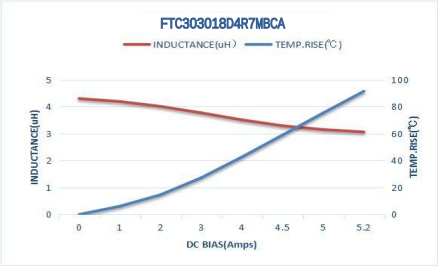
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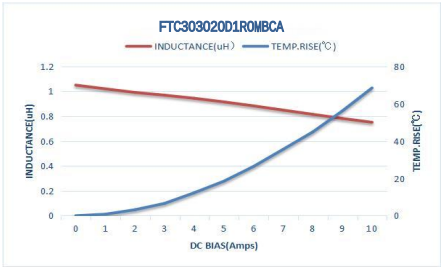
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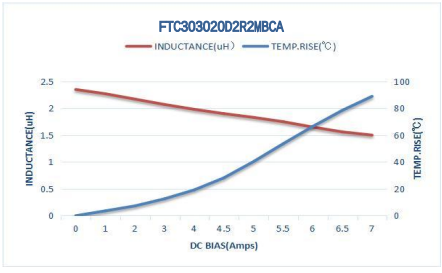
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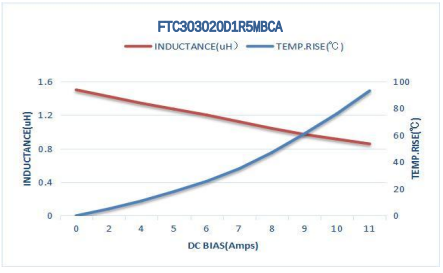
DC BIAS(Amps)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INDUCTANCE(uH)
TEMP.RISE(℃)
DC BIAS(Amps)

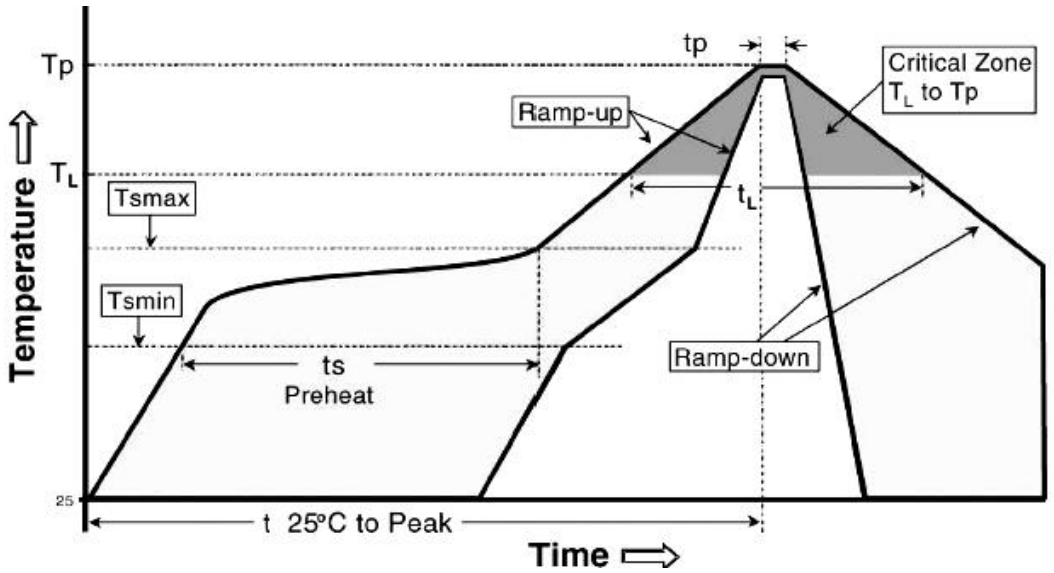
8. Reliability

Item	Requirements	Test Methods and Remarks
Insulation Resistance	≥100MΩ	100 VDC between inductor coil and The middle of the top surface of the body for 60 seconds.
Solderability	90% or more of electrode area shall be coated by new solde.	Dip pads in flux . Solder Composition: Sn/Ag3.0/Cu0.5(Pb-Free). Solder Temperature: 245±5℃. Immersion Time: (5±1) s.
Resistance to Soldering Heat	No visible mechanical damage. Inductance change: Within ±10.	Dip pads in flux. Solder Composition: Sn/Ag3.0/Cu0.5(Pb-Free). Solder Temperature: 260±5℃. Immersion Time: 10±1sec.
Adhesion of teral electrode	Strong bond between the pad and the core, without come off PCB.	Inductors shall be subjected to (260±5)℃ for (20±5)s Soldering in the base whit 0.3mm solder. And then aplombelectrode way plus tax 10 N for (10±1) seconds.
High temperature	No case deformation or change in appearance. Inductance change: Within ±10%	Temperature: 125±2℃. Time : 1000 hours. Measurement at 24±4 hours after test conclusion.
Low temperature	No visible mechanical damage. Inductance change: Within ±10%	Temperature: -40±2℃. Time : 1000 hours. Measurement at 24±4 hours after test conclusion.
Thermal shock	No visible mechanical damage. Inductance change: Within ±10%	The test sample shall be placed at (-55±3)℃ and (125±3)℃ for (30±3) , different temperature conversion time is 2~3 utes. The temperature cycle shall be repeated 32 cycles. Placed at room temperature for 2 hours, within 48±4 hours of testing.
Temperature characteristic	Inductance change Pc-b,Pc-d: Within ±20%	a：+20 ℃ （30~45） → b: -40 ℃ （30~45） → c: +20 ℃ （30~45） → d: +125 ℃ （30~45） → e: +20 ℃ （30~45） $P_{c\text{-}b}=\frac{L_b-L_c}{L_c}\times 100\%$; $P_{c\text{-}d}=\frac{L_d-L_c}{L_c}\times 100\%$
Static Humidity	No visible mechanical damage. Inductance change: Within ±10%	Inductors shall be subjected to (95±3)%RH . at(60±2)℃ for (1000±4) h. Placed at room temperature for 2 hours, within 48 hours of testing.
Life	No visible mechanical damage. Inductance change: Within ±10%	Inductors shall be store at (85±2)℃ for (1000±4) hours with Irms applied. Placed at room temperature for 2 hours, within 48 hours of testing

9. Soldering Condition

(This is for recommendation, please customer perform adjustment according to actual application)

Recommend Reflow Soldering Profile：(solder : Sn96.5 / Ag3 / Cu0.5)



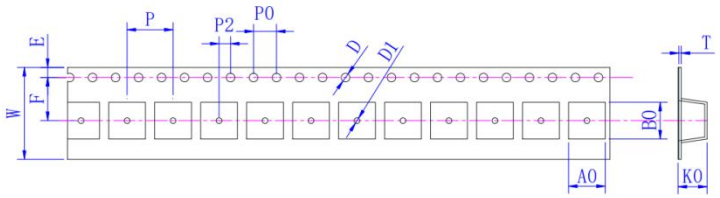
Profile Feature	Lead (Pb)-Free solder
Preheat： Temperature Min (Ts_{min}) Temperature Max (Ts_{max}) Time (Ts_{min} to Ts_{max}) (ts)	 150℃ 200℃ 60 -120 seconds
Average ramp-up rate： (Ts max to Tp)	 3℃ / second max.
Time maintained above : Temperature (T_L) Time (t_L)	 217℃ 60-150 seconds
Peak Temperature (Tp)	260℃
Time within $^{+0}_{-5}$℃ of actual peak Temperature (tp)[2]	10 seconds
Ramp-down Rate	6℃/second max.
Time 25℃ to Peak Temperature	8minutes max.

Allowed Re-flow times : 2 times

Remark : To avoid discoloration phenomena of chip on terminal electrodes, please use N_2 Re-flow furnace .

10. Packing

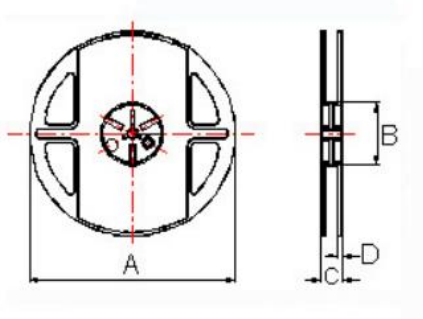
10.1 Dimension of plastic taping: (Unit: mm)



Series	W ±0.30	A0 ±0.05	B0 +0.1/-0	D +0.1/-0	D1 Min	E ±0.10	F ±0.10	K0 ±0.05	P0 ±0.10	P2 ±0.10	P ±0.10	T ±0.05	Qty/Reel
100765	8.00	0.90	1.20	1.50	1.0	1.75	3.50	0.80	4.00	2.00	4.00	0.23	5K
121065	8.00	1.30	1.50	1.50	1.0	1.75	3.50	0.80	4.00	2.00	4.00	0.23	
160865	8.00	1.10	1.90	1.50	1.0	1.75	3.50	0.80	4.00	2.00	4.00	0.23	3K
160808	8.00	1.10	1.90	1.50	1.0	1.75	3.50	1.00	4.00	2.00	4.00	0.23	
160810	8.00	1.10	1.90	1.50	1.0	1.75	3.50	1.20	4.00	2.00	4.00	0.23	
141265	8.00	1.50	1.70	1.50	1.0	1.75	3.50	0.80	4.00	2.00	4.00	0.23	
141208	8.00	1.50	1.70	1.50	1.0	1.75	3.50	1.00	4.00	2.00	4.00	0.23	
201265	8.00	1.50	2.30	1.50	1.0	1.75	3.50	0.8	4.00	2.00	4.00	0.23	
201208	8.00	1.50	2.30	1.50	1.0	1.75	3.50	1.00	4.00	2.00	4.00	0.23	
201210	8.00	1.50	2.30	1.50	1.0	1.75	3.50	1.20	4.00	2.00	4.00	0.23	
201608	8.00	1.90	2.30	1.50	1.0	1.75	3.50	1.00	4.00	2.00	4.00	0.23	
201610	8.00	1.90	2.30	1.50	1.0	1.75	3.50	1.20	4.00	2.00	4.00	0.23	
201612	8.00	1.90	2.30	1.50	1.0	1.75	3.50	1.40	4.00	2.00	4.00	0.23	
252010	8.00	2.40	2.80	1.50	1.0	1.75	3.50	1.20	4.00	2.00	4.00	0.23	
252012	8.00	2.40	2.80	1.50	1.0	1.75	3.50	1.40	4.00	2.00	4.00	0.23	
322510	8.00	2.90	3.50	1.50	1.0	1.75	3.50	1.20	4.00	2.00	4.00	0.23	
322512	8.00	2.90	3.50	1.50	1.0	1.75	3.50	1.40	4.00	2.00	4.00	0.23	
303018	12.0	3.40	3.40	1.50	1.0	1.75	5.50	2.00	4.00	2.00	8.00	0.35	
303020	12.0	3.40	3.40	1.50	1.0	1.75	5.50	2.20	4.00	2.00	8.00	0.35	

10.2 Dimension of Reel：(Unit: mm)

Type	A ±0.5	B ±0.5	C ±0.5	D ±1
All	178	60	12	1.5



11. Note

11.1 recommend products store in warehouse with temperature between 15 to 35℃ under humidity between 25 to 75%RH.
Even under storage conditions recommended above, solder ability of products will be degraded stored over 1 year old.

11.2 Cartons must be placed in correct direction which indicated on carton, otherwise the reel or wire will be deformed.

11.3 Storage conditions as below are inappropriate:

a. Stored in high electrostatic environment

b. Stored in direct sunshine, rain, snow or condensation.

c. Exposed to sea wind or corrosive gases, such as Cl_2, H_2S, NH_3, SO_2, NO_2, etc.

11.4 The products are used in circuit board thickness greater than 1.6mm. If customers use less than the thickness of the circuit board that you should confirm with the company, in order to recommend a more suitable product.

12. Record

Version	Description	Page	Date	Amended by	Checked by
A0	First version	1~23	Nov.21.2022	Charles	Charles
A1	newly increased： FTC303020D1R5MBCA FTC252010S6R8MBCA FTC252010S220MBCA FTC322510S2R2MBCA FTC201208SR47MBCD	1~23	Dec.14.2022	Charles	Charles
A2	newly increased： FTC303018D4R7MBCA FTC322510S3R3MBCA FTC322510S4R7MBCA	1~23	Dec.29.2022	Charles	Charles
A3	newly increased： FTC141207SR24MBCA FTC141207SR47MBCA FTC201612SR47MBCA FTC303018DR22MBCA FTC322512SR10MBCA FTC322510SR68MBCA	1~24	Jan.18.2023	Charles	Charles
A4	newly increased: FTC322512SR10MBCA FTC322510SR68MBCA	1~24	Feb.10.2023	Charles	Charles
A5	newly increased: FTC252010SR47MBCD FTC322510S1R0MBCA FTC322512S6R8MBCA FTC322512S100MBCA	1~24	Feb.23.2023	Charles	Charles
A6	newly increased: FTC201208SR68MBCA FTC201612S2R2MBCA FTC252008S1R0MBCA FTC252008S2R2MBCA FTC252012SR68MBCD FTC322510SR33MBCA FTC322510SR47MBCA FTC322510S1R5MBCA FTC322510S100MBCA FTC303018D1R5MBCA	1~24	Mar.31.2023	Charles	Charles
A7	newly increased: FTC322510S6R8MBCA FTC303012D100MBCA FTC303020DR50MBCA FTC303020DR68MBCA FTC252075S2R2MGCA FTC201208S4R7MBCA	1~25	Apr.28.2023	Charles	Charles
A8	newly increased: FTC303015D220MBCA FTC303020D100MBCA FTC404012S1R0MBCA FTC404030S4R7MGCA	1~26	Apr.28.2023	Charles	Charles

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