



TDG

MOLDING CHOKE

一体成型电感

TDG 天通控股股份有限公司
TDG HOLDING CO.,LTD.

MOLDING CHOKES 2025

2025 一体成型电感

地址：浙江省海宁市天通科技园

ADD: TDG Technology Park, Haining, Zhejiang, China

电话 TEL: +86-573-87681806



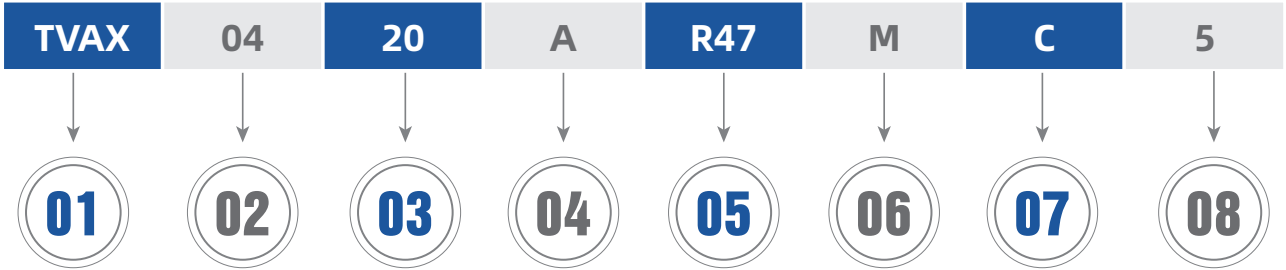
天通人



线上商城



PART NUMBERING



1. SERIES NUMBER

2. SIZE(L*W) , UNIT(MM)

CODE	04	05	06	10	13	0606	1205
DIMENSION	4.75*4.45	5.7*5.4	7.4*6.8	11.5*10.3	13.8*12.9	6.8*6.2	12*5.5

3. SIZE(T) , UNIT(MM)

CODE	12	15	18	20	30	40	50	60	65
DIMENSION	1.2	1.5	1.8	2.0	3.0	4.0	5.0	6.0	6.5

4. MODEL CODE

5.INDUCTANCE, UNIT(μH)

CODE	N45	N95	R47	R68	1R0	2R2	100	220	101	201
INDUCTANCE VALUE	0.045	0.095	0.47	0.68	1.0	2.2	10	22	100	200

6. TOLERANCE: K=± 10% , L=± 15% , M=± 20%

7. SPECIAL CONTROL CODE

8. OPERATING TEMP.

CODE	NA	5	6
OPERATING TEMP.	-55℃~125℃	-55℃~155℃	-55℃~165℃

SPECIFICATION NOTE

Note 1: All test data is referenced to 25℃ ambient

Note 2: Test Condition: 100kHz, 1.0Vrms

Note 3: I_{dc} : DC current (A) that will cause an approximate ΔT of 40℃

Note 4: I_{sat} : DC current (A) that will cause L_o to drop approximately 30

Note 5: The part temperature (ambient + temprise) should not exceed 125℃ under worse case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.

Note 6: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Customized needs, please contact sales

► SERIES PRODUCT SPECIFICATION

4*4 SERIES

TMAX0412A(4.75*4.45*1.2mm)

Part Number	L0 Inductance (μH)	DCR (mΩ)		Idc (A)	Isat (A)
		Typical	Max	Typical	Typical
TMAX0412AR33M	0.33	11	13.5	7.5	11
TMAX0412AR47M	0.47	19	23	5.6	6.8
TMAX0412AR68M	0.68	28	33.5	4.5	6.7
TMAX0412A1R0M	1	38.5	46.5	4.3	6.5
TMAX0412A1R5M	1.5	55	66	3.3	4.3
TMAX0412A2R2M	2.2	75	90	2.9	4.2
TMAX0412A4R7M	4.7	175	210	1.8	2.8

TMAX0415A(4.75*4.45*1.5mm)

Part Number	L0 Inductance (μH)	DCR (mΩ)		Idc (A)	Isat (A)
		Typical	Max	Typical	Typical
TMAX0415AR22M	0.22	6	7.5	10.5	14
TMAX0415AR33M	0.33	7	8.5	9.5	11
TMAX0415AR47M	0.47	11	14	7.8	9
TMAX0415AR56M	0.56	12	14	7.5	8.3
TMAX0415AR68M	0.68	16	19	6.8	8
TMAX0415A1R0M	1	23	27	5.5	6
TMAX0415A1R5M	1.5	48	58	4.2	4.6
TMAX0415A2R2M	2.2	65	78	2.9	4.5
TMAX0415A3R3M	3.3	77	92	3	3.2
TMAX0415A4R7M	4.7	108	130	2.2	3
TMAX0415A6R8M	6.8	172	207	2	2.3
TMAX0415A100M	10	245	294	1.8	2.1

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Commercial Choke



IATF 16949



TMAX0420A(4.75*4.45*2.0mm)

Part Number	L0 Inductance (μH)	DCR (mΩ)		Idc (A)	Isat (A)
		Typical	Max	Typical	Typical
TMAX0420A180M	18	250	288	1	2
TMAX0420AR10M	0.1	3.5	4.5	16	22
TMAX0420AR22M	0.22	5.5	6.6	13	17
TMAX0420AR33M	0.33	7.5	9	9.5	12
TMAX0420AR47M	0.47	10.5	13	8.5	11
TMAX0420AR56M	0.56	12	15	8	10
TMAX0420AR68M	0.68	12.5	16	7.5	9
TMAX0420A1R0M	1	20	24	6.5	7
TMAX0420A1R2M	1.2	23	28	6.5	6.8
TMAX0420A1R5M	1.5	25	30	5	6
TMAX0420A2R2M	2.2	40	48	3.8	5.5
TMAX0420A3R3M	3.3	71	85	3.3	4
TMAX0420A4R7M	4.7	98	118	2.7	3.2
TMAX0420A6R8M	6.8	167	192	2	2.6
TMAX0420A100M	10	245	281	1.7	2.2
TMAX0420A150M	15	320	384	1.5	1.8
TMAX0420A220M	22	350	402	1.2	1.65

5*5 SERIES

TMAX0515A(5.7*5.4*1.5mm)

Part Number	L0 Inductance (μH)	DCR (mΩ)		Idc (A)	Isat (A)
		Typical	Max	Typical	Typical
TMAX0515AR12M	0.12	3.2	3.7	18	29
TMAX0515AR22M	0.22	3.79	4.4	16	20
TMAX0515AR47M	0.47	10.8	12.7	10	15
TMAX0515AR68M	0.68	13.5	15.5	9	11.2
TMAX0515A1R0M	1	19	23	6.5	10
TMAX0515A1R2M	1.2	29	33.7	5.3	8
TMAX0515A2R2M	2.2	45	52	5	7
TMAX0515A3R3M	3.3	60	72	3.5	5.1
TMAX0515A4R7M	4.7	88	100	3.1	4.2
TMAX0515A100M	10	152	170	2.1	3.1

TMAX0518A (5.7*5.4*1.8mm)

Part Number	L0 Inductance (μH)	DCR (mΩ)		Idc (A)	Isat (A)
		Typical	Max	Typical	Typical
TMAX0518AR22M	0.22	3.15	3.65	20	24
TMAX0518AR24M	0.24	3.15	3.65	20	23
TMAX0518AR33M	0.33	4.5	5.2	17	20
TMAX0518AR47M	0.47	7.7	9	10.5	15.5
TMAX0518AR56M	0.56	8	10	9.5	15
TMAX0518AR68M	0.68	11.5	13.3	9.2	16.2
TMAX0518A1R0M	1.0	15	17	8	9
TMAX0518A1R5M	1.5	21	26	7.5	9
TMAX0518A2R2M	2.2	30	35	5	6.5
TMAX0518A3R3M	3.3	52	58	4.5	5
TMAX0518A4R7M	4.7	78	85	3.5	4
TMAX0518A6R8M	6.8	107	120	2.8	3.4
TMAX0518A100M	10	140	50	2.8	3

6*6 SERIES

TMAX0530A(5.7*5.4*3.0mm)

Part Number	L0 Inductance (μH)	DCR (mΩ)		Idc (A)	Isat (A)
		Typical	Max	Typical	Typical
TMAX0530AR15M	0.15	3.1	3.5	17	30
TMAX0530AR33M	0.33	4.55	5.15	14	19
TMAX0530AR47M	0.47	7.6	8.5	11	16
TMAX0530AR68M	0.68	9	10	11	13
TMAX0530A1R0M	1	12	13.5	9	11
TMAX0530A2R2M	2.2	25	29	6.5	9
TMAX0530A3R3M	3.3	33	38	5.5	8
TMAX0530A4R7M	4.7	51	60	4.5	6
TMAX0530A5R6M	5.6	85	94	3.2	5.8
TMAX0530A6R8M	6.8	80	90	3.5	4.5
TMAX0530A100M	10	110	125	3	4

TMAX0530B(5.5*5.3*3.0mm)

Part Number	L0 Inductance (μH)	DCR (mΩ)		Idc (A)	Isat (A)
		Typical	Max	Typical	Typical
TMAX0530BR20M	0.2	2.1	2.31	21	22.2
TMAX0530BR35M	0.35	3.9	4.29	14.9	16.6
TMAX0530BR47M	0.47	6.5	7.15	11.5	12
TMAX0530BR75M	0.75	8.5	9.35	9.7	11.3
TMAX0530B1R0M	1	10.4	11.44	8.5	10.1
TMAX0530B1R5M	1.5	17.1	18.5	7	7.5
TMAX0530B2R2M	1.2	22.5	25	6.5	6.8
TMAX0530B3R3M	3.3	36.4	40.4	6	5.5
TMAX0530B4R7M	4.7	54	60	5.5	4.5
TMAX0530B5R6M	5.6	63	70.6	3.5	4.3
TMAX0530B100M	10	122.1	131.9	2.3	2.8
TMAX0530B150M	15	138.4	166.2	2.1	2.4
TMAX0530B220M	22	260	270	1.9	1.9

TMAX0630A (7.4*6.8*3.0mm)

Part Number	L0 Inductance (μH)	DCR (mΩ)		Idc (A)	Isat (A)
		Typical	Max	Typical	Typical
TMAX0630AR10M	0.1	1	1.4	35	45
TMAX0630AR22M	0.22	2.3	2.8	24	34
TMAX0630AR33M	0.33	3	3.5	21	25
TMAX0630AR47M	0.47	3.7	4.1	18	20
TMAX0630AR68M	0.68	4.6	5.2	16.5	18.5
TMAX0630AR82M	0.82	4.7	5.4	16.2	18
TMAX0630A1R0M	1	5.6	6.5	16	17
TMAX0630A1R5M	1.5	7.5	8.9	12	15
TMAX0630A2R2M	2.2	11	12.8	10	14
TMAX0630A3R3M	3.3	18.5	21	8	11
TMAX0630A4R7M	4.7	23.6	26	6.7	8
TMAX0630A5R6M	5.6	30	33	6.6	8.5
TMAX0630A6R8M	6.8	41	48	5.5	7
TMAX0630A8R2M	8.2	52	60	5.1	6.6
TMAX0630A100M	10	59	66	4.2	6.2
TMAX0630A150M	15	93	105	3.5	4
TMAX0630A220M	22	148	170	2.8	3.2
TMAX0630A330M	33	230	270	2.1	3

TMAX0640A(7.4*6.8*4.0mm)

Part Number	L0 Inductance (μH)	DCR (mΩ)		Idc (A)	Isat (A)
		Typical	Max	Typical	Typical
TMAX0640AR15M	0.15	0.83	0.92	36	45
TMAX0640AR22M	0.22	1.85	2.1	25	34
TMAX0640AR33M	0.33	2	2.6	25	34
TMAX0640AR36M	0.36	2.7	3.1	25	31
TMAX0640AR47M	0.47	3	3.4	23	28
TMAX0640AR56M	0.56	3.8	4.3	20	26
TMAX0640AR68M	0.68	4.1	4.5	16	24
TMAX0640AR82M	0.82	5.5	6.3	15	23
TMAX0640A1R0M	1	6.8	8	14	22
TMAX0640A1R5M	1.5	10	12	12	20
TMAX0640A2R2M	2.2	11.5	14	9	14
TMAX0640A3R3M	3.3	24	27	8	12
TMAX0640A4R7M	4.7	28	32.5	6	11
TMAX0640A5R6M	5.6	33	38	5	9
TMAX0640A6R8M	6.8	44	50	4.5	8.5
TMAX0640A8R2M	8.2	55	64	4.5	8
TMAX0640A100M	10	64	72	4	7
TMAX0640A150M	15	80	90	3	3.5
TMAX0640A220M	22	120	145	2.5	3.5
TMAX0640A330M	33	205	225	2.2	3.5

TMAX0650A(7.4*6.8*5.0mm)

Part Number	L0 Inductance (μH)	DCR (mΩ)		Idc (A)	Isat (A)
		Typical	Max	Typical	Typical
TMAX0650AR33M	0.33	2.85	3.2	22	30
TMAX0650AR47M	0.47	4.4	4.95	18	22
TMAX0650A1R0M	1	5.6	6	15.6	13
TMAX0650A3R3M	3.3	15.5	17.8	7.5	10
TMAX0650A5R5M	5.5	27	33	6.3	9.5
TMAX0650A6R8M	6.8	31	37	6	8
TMAX0650A8R2M	8.2	51.5	57	4.3	7
TMAX0650A100M	10	53	65	4	6.5
TMAX0650A150M	15	76	85	3.8	5
TMAX0650A180M	18	90	100	3.5	4.5
TMAX0650A220M	22	116	130	3	4
TMAX0650A330M	33	170	185	2.7	3
TMAX0650A470M	47	295	330	2	2.5

10*10 SERIES

TMAX1030A (11.5*10.3*3.0mm)

Part Number	L0 Inductance (μH)	DCR (mΩ)		Idc (A)	Isat (A)
		Typical	Max	Typical	Typical
TMAX1030AR15M	0.15	0.9	1.1	35	60
TMAX1030AR22M	0.22	1.1	1.3	30	55
TMAX1030AR24M	0.24	1.2	1.4	30	50
TMAX1030AR33M	0.33	1.2	1.5	25	47
TMAX1030AR36M	0.36	1.3	1.6	23	40
TMAX1030AR47M	0.47	2.1	2.5	20	33
TMAX1030AR56M	0.56	2.6	3	16	24
TMAX1030AR82M	0.82	3.9	4.5	15	22
TMAX1030A1R0M	1	4.6	6	15	20
TMAX1030A1R5M	1.5	6.5	7.5	13	20
TMAX1030A2R2M	2.2	8	9	12	16
TMAX1030A3R3M	3.3	14.5	16	9	14
TMAX1030A4R7M	4.7	20.5	22.5	7	13
TMAX1030A5R6M	5.6	28	32.5	7	12
TMAX1030A6R8M	6.8	30.2	35	6.5	9.5
TMAX1030A8R2M	8.2	42	48	6	8.5
TMAX1030A100M	10	50	55	5	8
TMAX1030A150M	15	72	86	4	7
TMAX1030A220M	22	115	140	3	5.5
TMAX1030A470M	47	216	260	2	4

TMAX1040A(11.5*10.3*4.0mm)

Part Number	L0 Inductance (μH)	DCR (mΩ)		Idc (A)	Isat (A)
		Typical	Max	Typical	Typical
TMAX1040AR15M	0.15	0.45	0.55	50	76
TMAX1040AR22M	0.22	0.8	1	35	60
TMAX1040AR36M	0.36	1.13	1.25	32	60
TMAX1040AR47M	0.47	1.5	1.7	30	40
TMAX1040AR56M	0.56	1.68	1.85	27	40
TMAX1040AR68M	0.68	2.17	2.4	24	39
TMAX1040A1R0M	1	2.7	3.3	19	36
TMAX1040A1R5M	1.5	3.8	4.2	17	26
TMAX1040A2R2M	2.2	6.8	8	12	18
TMAX1040A3R3M	3.3	10.5	11.8	10	16
TMAX1040A4R7M	4.7	15	19	9.5	14
TMAX1040A5R6M	5.6	19.8	23	14.1	8
TMAX1040A6R8M	6.8	22.5	25	8	12
TMAX1040A8R2M	8.2	24	26.5	9	7.6
TMAX1040A100M	10	24	30	7.8	8.5
TMAX1040A150M	15	37	45	6.5	7
TMAX1040A220M	22	55	66	5	6
TMAX1040A330M	33	78	92	4.4	5
TMAX1040A470M	47	126	145	3.3	4
TMAX1040A560M	56	159	182	3	3.8
TMAX1040A680M	68	166	195	2.5	3.5
TMAX1040A101M	100	305	350	2.2	3

TMAX1050A(11.5*10.3*5.0mm)

Part Number	L0 Inductance (μH)	DCR (mΩ)		Idc (A)	Isat (A)
		Typical	Max	Typical	Typical
TMAX1050A1R0M	1	2.15	2.4	25	35
TMAX1050A1R5M	1.5	2.6	3	20	20
TMAX1050A2R2M	2.2	3.9	4.25	15	18
TMAX1050A3R3M	3.3	8.15	9.45	13	18
TMAX1050A4R7M	4.7	11.85	13.63	12	23
TMAX1050A5R6M	5.6	11.9	13.7	11	17
TMAX1050A6R8M	6.8	16.85	19.38	9	15
TMAX1050A100M	10	22.06	25.37	7.3	12
TMAX1050A120M	12	23.45	26.75	7.5	11
TMAX1050A150M	15	30.85	35.48	6	8
TMAX1050A220M	22	48.75	56.06	5	6.8
TMAX1050A330M	33	64.31	73.95	4.2	5
TMAX1050A470M	47	92	106	4	4.5
TMAX1050A680M	68	152	175	2.3	4
TMAX1050A101M	100	205	225	2.8	3.2

13*13 SERIES

TMAX1350A(13.8*12.9*5.0mm)

Part Number	L0 Inductance (μH)	DCR (mΩ)		Idc (A)	Isat (A)
		Typical	Max	Typical	Typical
TMAX1350AR68M	0.68	1.3	1.55	33	46
TMAX1350A4R7M	4.7	8	9.5	13	18
TMAX1350A5R6M	5.6	10.5	12.5	12	17
TMAX1350A6R8M	6.8	14.5	18	11	16
TMAX1350A100M	10	19.5	22	9.5	13
TMAX1350A220M	22	48	56	6	7
TMAX1350A330M	33	58	68	5	6.5
TMAX1350A470M	47	82	95	4	5

TMAX1365A(13.8*12.9*6.5mm)

Part Number	L0 Inductance (μH)	DCR (mΩ)		Idc (A)	Isat (A)
		Typical	Max	Typical	Typical
TMAX1365AR47M	0.47	1.1	1.3	40	55
TMAX1365AR82M	0.82	1.66	1.9	34	50
TMAX1365A1R0M	1	1.7	2.1	32	38
TMAX1365A1R5M	1.5	2.1	2.4	30	35
TMAX1365A2R2M	2.2	3.2	3.8	24	32
TMAX1365A3R3M	3.3	4.2	4.7	22	26
TMAX1365A4R7M	4.7	8.2	10	16	24
TMAX1365A5R6M	5.6	7.5	8.6	18	20
TMAX1365A6R8M	6.8	10	12	15	17
TMAX1365A100M	10	15.5	17.8	11	15.5
TMAX1365A150M	15	23.5	27	8	11
TMAX1365A220M	22	34.5	39.5	7	10
TMAX1365A330M	33	40	48	6	8
TMAX1365A470M	47	61.5	72	5	5.2
TMAX1365A680M	68	105	125	4	4.5
TMAX1365A101M	100	155	180	3.2	4



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AUTOMOTIVE
CHOKES



IATF 16949



► SERIES PRODUCT SPECIFICATION

4*4 SERIES

TVAX0420A (4.75*4.45*2.0mm)

Part Number	L0 Inductance (μH)	DCR (mΩ)		Idc (A)	Isat (A)
		Typical	Max	Typical	Typical
TVAX0420A1R0M	1	20	26	5	8
TVAX0420A1R5M	1.5	38	46	5	7
TVAX0420A2R2M	2.2	45	58	4.5	6
TVAX0420A3R3M	3.3	76	87	3.2	5
TVAX0420A4R7M	4.7	92	105	3	4
TVAX0420A6R8M	6.8	125	150	2.5	3.8

5*5 SERIES

TVAX0530A (5.7*5.4*3.0mm)

Part Number	L0 Inductance (μH)	DCR (mΩ)		Idc (A)	Isat (A)
		Typical	Max	Typical	Typical
TVAX0530A1R0M	1	12	13.5	9	12
TVAX0530A2R2M	2.2	25	29	6.5	10
TVAX0530A3R3M	3.3	33	38	5.5	9
TVAX0530A4R7M	4.7	51	60	4.5	7
TVAX0530A6R8M	6.8	80	90	3.5	5.5
TVAX0530A100M	10	110	125	3	5



6*6 SERIES

TVAX0630A (7.4*6.8*3.0mm)

Part Number	L0 Inductance (μH)	DCR (mΩ)		Idc (A)	Isat (A)
		Typical	Max	Typical	Typical
TVAX0630AR22M	0.22	2.3	2.8	24	35
TVAX0630AR36M	0.36	2.3	2.55	25	32
TVAX0630AR47M	0.47	3.7	4.1	18	21
TVAX0630AR68M	0.68	5.35	5.7	15.5	18
TVAX0630AR82M	0.82	5.4	6	14	17
TVAX0630A1R0M	1	6.5	7.4	12	16
TVAX0630A1R5M	1.5	9.5	12.1	12	15
TVAX0630A2R2M	2.2	12.8	15	9.5	11
TVAX0630A3R3M	3.3	18	22	8.5	10.5
TVAX0630A4R7M	4.7	30.5	35	5.8	7.5
TVAX0630A6R8M	6.8	43	48	5	7
TVAX0630A100M	10	62	69	4.5	6
TVAX0630A220M	22	160	185	2.7	4.2

10*10 SERIES

TVAX1040A(11.5*10.3*4.0mm)

Part Number	L0 Inductance (μH)	DCR (mΩ)		Idc (A)	Isat (A)
		Typical	Max	Typical	Typical
TVAX1040AR22M	0.22	0.8	1	35	60
TVAX1040AR36M	0.36	1.13	1.25	32	60
TVAX1040AR47M	0.47	1.5	1.7	30	40
TVAX1040AR56M	0.56	1.68	1.85	27	40
TVAX1040A1R0M	1	3	4	19	28
TVAX1040A1R5M	1.5	3.8	4.2	17	26
TVAX1040A2R2M	2.2	6.8	8	12	18
TVAX1040A3R3M	3.3	10.5	11.8	10	16
TVAX1040A4R7M	4.7	15	19	9.5	14
TVAX1040A6R8M	6.8	22.5	25	8	12
TVAX1040A100M	10	25	30	7.8	8.5

13*13 SERIES

TVAX1040A(11.5*10.3*4.0mm)

Part Number	L0 Inductance (μH)	DCR (mΩ)		Idc (A)	Isat (A)
		Typical	Max	Typical	Typical
TVAX1040AR22M5	0.22	0.8	1	35	60
TVAX1040A1R0M5	1	3	4	19	28
TVAX1040A2R2M5	2.2	6.8	8	12	18
TVAX1040A3R3M5	3.3	10.5	11.8	10	16
TVAX1040A4R7M5	4.7	15	19	9.5	14
TVAX1040A6R8M5	6.8	22.5	25	8	12
TVAX1040A100M5	10	25	30	7.8	8.5

TVAX1350A(13.8*12.9*5.0mm)

Part Number	L0 Inductance (μH)	DCR (mΩ)		Idc (A)	Isat (A)
		Typical	Max	Typical	Typical
TVAX1350AR68M	0.68	1.3	1.55	35	46
TVAX1350A4R7M	4.7	1.13	9.5	13	18
TVAX1350A6R8M	6.8	1.5	18	11.5	16
TVAX1350A100M	10	1.68	22	9	13
TVAX1350A220M	22	48	56	5.5	7

TVAX1050A(11.5*10.3*5.0mm)

Part Number	L0 Inductance (μH)	DCR (mΩ)		Idc (A)	Isat (A)
		Typical	Max	Typical	Typical
TVAX1050A1R0M	1	2.15	2.4	28	40
TVAX1050A2R2M	2.2	3.9	4.25	18.5	20
TVAX1050A4R7M	4.7	11.9	13.6	12	23
TVAX1050A5R6M	5.6	11.9	13.7	11	17
TVAX1050A6R8M	6.8	16.8	19.4	9	15
TVAX1050A100M	10	22.1	25.4	7.3	12
TVAX1050A120M	12	23.5	26.8	7.5	11
TVAX1050A150M	15	30.9	35.5	6	8
TVAX1050A220M	22	48.8	56.1	5	6.8

TVAX1365A(13.8*12.9*6.5mm)

Part Number	L0 Inductance (μH)	DCR (mΩ)		Idc (A)	Isat (A)
		Typical	Max	Typical	Typical
TVAX1365A1R0M	1	1.7	2.1	32	38
TVAX1365A1R5M	1.5	2.1	2.4	30	35
TVAX1365A2R2M	2.2	3.2	3.8	24	32
TVAX1365A3R3M	3.3	4.2	4.7	22	26
TVAX1365A4R7M	4.7	8.2	10	16	24
TVAX1365A6R8M	6.8	10	12	15	17
TVAX1365A8R2M	8.2	12.8	15	12	17
TVAX1365A100M	10	17	20.5	10.5	13.5
TVAX1365A220M	22	34.5	39.5	7	10