

High-Performance Molded Power Inductors-TRMS-SA Series

The TRMS series of high-performance molded power inductors offer excellent mechanical robustness and magnetic shielding, making them ideal for high-density power conversion circuit applications. They feature high rated current and extremely low DC resistance (DCR), making them particularly suitable for high switching frequency environments where minimizing AC losses is critical.



Features



- High current, low DCR, high efficiency
- Compliant for 100% Lead(Pb)-Free and RoHS
- High reliability - AEC-Q200 Automotive Certified

Applications

- Note PC power system, incl. IMVP-6
- DC/DC converter

Operating Temp

- -55°C~+155°C

Product Identification

1	2	3	4	5	6	7
TRMS	040402	SA	XXX	M	T	Q

1	Product Symbol
TRMS	SMD Power Inductor

3	Internal Code
SA	Alloy Powder

2	External Dimensions(mm)
040402	4.1*4.1*1.9
040403	4.1*4.1*2.8
060502	5.5*5.3*1.9
060503	5.5*5.3*2.9
060505	5.5*5.3*4.8
070603	6.6*6.4*2.8
070604	7.2*6.9*3.8
070605	6.6*6.4*4.8
070606	6.6*6.4*5.8
080802	7.8*7.6*1.85
080803	7.8*7.6*2.9
080805	8.4*8.0*4.8
080807	7.8*7.6*6.7
090908	8.9*8.5*7.7
121103	11.9*11.0*2.9
121106	11.9*11.0*5.7
121110	11.9*11.0*9.7
171608	16.5*15.5*7.7
171610	16.5*15.5*9.7
171613	16.5*15.5*12.7

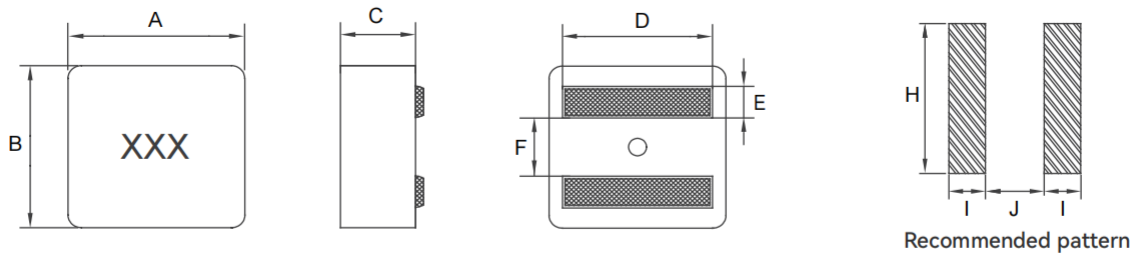
4	Nominal Inductance
R47	0.47μH
1R0	1.0μH

5	Inductance Tolerance
M	±20%

6	Packing
T	Tape Carrier Package

7	Internal Code
Q	Automotive grade

Shape and Dimensions



Dimensions									Unit:mm
Series	A	B	C	D	E	F	H Ref.	I Ref.	J Ref.
TRMS040402SA	4.1±0.2	4.1±0.2	1.9±0.2	3.4±0.3	0.88±0.3	1.7±0.3	3.8	1.0	1.4
TRMS040403SA	4.1±0.25	4.1±0.25	2.8±0.2	3.4±0.3	0.88±0.3	1.7±0.3	3.8	1.0	1.4
TRMS060502SA	5.5±0.2	5.3±0.2	1.9±0.2	4.3±0.3	1.1±0.3	2.3±0.3	4.7	1.25	2.0
TRMS060503SA	5.5±0.2	5.3±0.2	2.9±0.2	4.3±0.3	1.1±0.3	2.3±0.3	4.7	1.25	2.0
TRMS060505SA	5.5±0.2	5.3±0.2	4.8±0.2	4.3±0.3	1.1±0.3	2.3±0.3	4.7	1.25	2.0
TRMS070603SA	6.6±0.2	6.4±0.2	See Remarks	See Remarks	1.4±0.3	2.6±0.3	5.6	1.55	2.5
TRMS070604SA	7.2±0.2	6.9±0.2	3.8±0.2	5.5±0.3	1.4±0.2	2.6±0.25	5.6	1.55	2.5
TRMS070605SA	6.6±0.2	6.4±0.2	4.8±0.2	See Remarks	1.4±0.3	2.6±0.3	5.6	1.55	2.5
TRMS070606SA	6.6±0.2	6.4±0.2	5.8±0.2	5.3±0.3	1.4±0.3	2.6±0.3	5.6	1.55	2.5
TRMS080802SA	7.8±0.25	7.6±0.2	1.85±0.2	See Remarks	1.75±0.3	3.15±0.3	7.2	2.3	2.8
TRMS080803SA	7.8±0.25	7.6±0.2	2.9±0.2	See Remarks	1.75±0.3	3.15±0.3	7.2	2.3	2.8
TRMS080805SA	8.4±0.3	8.0±0.3	4.8±0.2	6.2±0.3	1.75±0.2	3.15±0.25	7.4	2.2	2.8
TRMS080807SA	7.8±0.25	7.6±0.25	6.7±0.3	See Remarks	1.75±0.3	3.15±0.3	6.7	2.5	2.8
TRMS090908SA	8.9±0.3	8.5±0.3	7.7±0.3	See Remarks	1.8±0.3	3.5±0.5	7.8	2.65	2.7
TRMS121103SA	11.9±0.3	11.0±0.3	2.9±0.2	9.0±0.5	2.4±0.3	4.4±0.5	11	3.4	3.7
TRMS121106SA	11.9±0.3	11.0±0.3	5.7±0.3	See Remarks	2.4±0.3	4.5±0.5	11	3.4	3.7
TRMS121110SA	11.9±0.3	11.0±0.3	9.7±0.3	See Remarks	2.4±0.3	4.4±0.5	11	3.4	3.7
TRMS171608SA	16.5±0.3	15.5±0.3	7.7±0.3	13.2±0.5	3.2±0.3	7.0±0.5	15	4.5	6.0
TRMS171610SA	16.5±0.3	15.5±0.3	9.7±0.3	13.2±0.5	3.2±0.3	7.4±0.3	15	4.5	6.0
TRMS171613SA	16.5±0.3	15.5±0.3	12.7±0.3	13.2±0.5	3.2±0.3	7.0±0.5	15	4.5	6.0

Remarks:

Series	C (mm)	D (mm)	Inductance
TRMS070603SA	2.8±0.2	5.3±0.3	R18/R56/R68
	2.8±0.2	5.55±0.3	R33
	2.8±0.2	5.2±0.3	1R0
	2.8±0.2	5.15±0.3	1R2
	2.9±0.2	5.15±0.3	1R5
	2.9±0.2	5.1±0.3	1R8
	2.9±0.2	5.05±0.3	2R2
	2.9±0.2	5.0±0.3	3R3/4R5
TRMS070605SA	\	5.3±0.3	R82/1R0/1R2/1R5/1R8
	\	5.2±0.3	2R2/3R3/4R3/4R7
TRMS080802SA	\	6.6±0.3	R27
	\	6.2±0.3	R31/R33/R47/R68/1R0
TRMS080803SA	\	6.6±0.3	1R0/1R5
	\	6.2±0.3	2R2/2R7/3R3/4R7/5R6/6R8/8R2
TRMS080807SA	\	6.7±0.3	1R0/1R8/3R3/4R7/6R8
	\	6.5±0.3	6R8
TRMS090908SA	\	7.2±0.3	1R8/2R2
	\	6.9±0.3	3R3/4R7/6R8/100
TRMS121106SA	\	9.5±0.5	R68
	\	9.0±0.5	1R0/1R2/1R5/2R2/3R3/4R7
TRMS121110SA	\	9.3±0.5	2R2/3R3/4R7/5R6
	\	9.0±0.5	6R8/8R2/100/150

Specification

TRMS040402SA Series

Part Number	Inductance	Saturation Current		Heat Rating Current		DC Resistance
	L (μH)	Isat(A)		Irms(A)		RDC(mΩ)
	±20 %	Max.	Typ.	20℃ rise	40℃ rise	Max.
TRMS040402SAR10MTQ	0.10	33.00	38.00	13.50	18.00	2.42
TRMS040402SAR22MTQ	0.22	18.80	19.50	13.00	16.80	4.60
TRMS040402SAR36MTQ	0.36	15.00	17.00	11.00	14.50	6.30
TRMS040402SAR40MTQ	0.40	13.50	15.50	10.00	14.00	7.73
TRMS040402SAR47MTQ	0.47	13.00	14.50	9.00	12.50	8.58
TRMS040402SAR56MTQ	0.56	12.60	14.00	8.50	12.00	9.30
TRMS040402SAR60MTQ	0.60	12.30	13.70	8.00	11.70	9.52
TRMS040402SAR72MTQ	0.72	10.60	12.00	7.60	10.50	11.60
TRMS040402SA1R0MTQ	1.0	8.80	9.60	6.80	9.60	14.60
TRMS040402SA1R2MTQ	1.2	7.80	9.00	6.60	9.00	17.90
TRMS040402SA1R5MTQ	1.5	7.40	8.00	5.80	7.60	23.50
TRMS040402SA1R8MTQ	1.8	7.00	7.50	5.20	7.00	28.00
TRMS040402SA2R2MTQ	2.2	6.00	6.50	4.60	5.60	38.70

TRMS040403SA Series

Part Number	Inductance	Saturation Current		Heat Rating Current		DC Resistance
	L (μH)	Isat(A)		Irms(A)		RDC(mΩ)
	±20 %	Max.	Typ.	20℃ rise	40℃ rise	Max.
TRMS040403SAR47MTQ	0.47	15.00	17.00	10.00	14.00	7.26
TRMS040403SAR90MTQ	0.90	9.00	10.00	8.20	11.20	10.10
TRMS040403SA1R0MTQ	1.0	9.20	9.80	8.00	11.00	10.10
TRMS040403SA1R2MTQ	1.2	8.70	9.20	7.80	9.80	11.50
TRMS040403SA1R5MTQ	1.5	7.00	8.00	7.00	9.00	13.20
TRMS040403SA2R2MTQ	2.2	6.10	7.00	6.00	7.80	22.60
TRMS040403SA3R3MTQ	3.3	5.30	6.20	5.00	6.60	28.60
TRMS040403SA4R7MTQ	4.7	4.00	4.50	3.90	5.10	44.10
TRMS040403SA6R8MTQ	6.8	3.00	3.60	3.00	3.90	74.10

TRMS060502SA Series

Part Number	Inductance	Saturation Current		Heat Rating Current		DC Resistance
	L (μH)	Isat(A)		Irms(A)		RDC(mΩ)
	±20 %	Max.	Typ.	20℃ rise	40℃ rise	Max.
TRMS060502SAR15MTQ	0.15	27.00	30.00	13.90	18.80	4.60
TRMS060502SAR16MTQ	0.16	27.00	30.00	13.90	18.80	4.60
TRMS060502SAR33MTQ	0.33	24.00	26.00	10.50	14.40	7.00
TRMS060502SAR47MTQ	0.47	20.00	22.00	10.10	14.10	8.05
TRMS060502SAR56MTQ	0.56	16.00	19.00	9.90	13.90	9.54
TRMS060502SAR68MTQ	0.68	14.00	16.00	9.60	13.40	10.20
TRMS060502SAR80MTQ	0.80	13.50	15.50	9.40	13.00	11.80
TRMS060502SAR82MTQ	0.82	13.00	15.00	8.50	12.00	12.70
TRMS060502SA1R0MTQ	1.0	12.80	14.50	7.50	10.50	13.80
TRMS060502SA1R2MTQ	1.2	12.20	14.00	6.80	9.40	16.30
TRMS060502SA1R5MTQ	1.5	11.70	13.30	6.40	8.80	18.70

TRMS060503SA Series

Part Number	Inductance	Saturation Current		Heat Rating Current		DC Resistance
	L (μH)	Isat(A)		Irms(A)		RDC(mΩ)
	±20 %	Max.	Typ.	20℃ rise	40℃ rise	Max.
TRMS060503SAR15MTQ	0.15	32.50	36.00	14.30	22.20	2.31
TRMS060503SAR16MTQ	0.16	32.00	35.00	14.20	22.20	2.33
TRMS060503SAR33MTQ	0.33	26.00	28.00	13.80	19.20	3.52

TRMS060503SA Series

Part Number	Inductance	Saturation Current		Heat Rating Current		DC Resistance
	L (μH)	Isat(A)		Irms(A)		RDC(mΩ)
	±20 %	Max.	Typ.	20℃ rise	40℃ rise	Max.
TRMS060503SAR47MTQ	0.47	24.00	26.00	13.70	18.40	4.13
TRMS060503SAR56MTQ	0.56	20.20	22.20	13.60	17.70	4.52
TRMS060503SAR60MTQ	0.60	20.00	22.00	13.60	17.70	4.52
TRMS060503SAR80MTQ	0.80	18.00	20.00	10.10	13.10	5.65
TRMS060503SAR82MTQ	0.82	17.60	19.70	9.90	12.90	5.78
TRMS060503SA1R0MTQ	1.0	14.30	16.50	9.00	12.20	7.60
TRMS060503SA1R2MTQ	1.2	13.50	15.00	8.50	11.00	9.70
TRMS060503SA1R5MTQ	1.5	12.50	14.00	8.00	10.50	11.20
TRMS060503SA1R8MTQ	1.8	11.30	12.30	7.60	10.10	12.70
TRMS060503SA2R2MTQ	2.2	9.00	10.00	7.20	9.70	14.50
TRMS060503SA3R3MTQ	3.3	8.70	9.50	5.90	8.10	23.10
TRMS060503SA4R7MTQ	4.7	7.00	8.20	4.30	5.90	36.30

TRMS060505SA Series

Part Number	Inductance	Saturation Current		Heat Rating Current		DC Resistance
	L (μH)	Isat(A)		Irms(A)		RDC(mΩ)
	±20 %	Max.	Typ.	20℃ rise	40℃ rise	Max.
TRMS060505SAR18MTQ	0.18	36.00	40.00	35.00	31.00	1.40
TRMS060505SAR22MTQ	0.22	31.00	35.00	31.00	27.00	1.60
TRMS060505SAR33MTQ	0.33	30.00	34.00	30.00	26.00	2.00
TRMS060505SAR56MTQ	0.56	24.00	26.00	25.00	23.00	2.90
TRMS060505SA1R0MTQ	1.0	17.00	19.00	21.00	18.00	3.90
TRMS060505SA1R5MTQ	1.5	13.00	15.00	18.00	16.00	5.60
TRMS060505SA2R2MTQ	2.2	11.00	12.50	15.00	13.00	8.20
TRMS060505SA3R3MTQ	3.3	10.00	11.00	12.50	11.00	11.50
TRMS060505SA4R7MTQ	4.7	8.50	9.50	10.00	8.50	16.00
TRMS060505SA5R6MTQ	5.6	7.20	8.60	5.30	7.20	24.20
TRMS060505SA6R8MTQ	6.8	6.60	7.80	4.80	6.40	28.60
TRMS060505SA8R2MTQ	8.2	6.10	7.20	4.60	6.10	32.50
TRMS060505SA100MTQ	10	5.40	6.50	3.80	5.00	43.00
TRMS060505SA150MTQ	15	3.20	3.70	3.00	3.90	76.70

TRMS070603SA Series

Part Number	Inductance	Saturation Current		Heat Rating Current		DC Resistance
	L (μH)	Isat(A)		Irms(A)		RDC(mΩ)
	±20 %	Max.	Typ.	20℃ rise	40℃ rise	Max.
TRMS070603SAR18MTQ	0.18	36.00	40.00	24.00	32.00	1.75
TRMS070603SAR33MTQ	0.33	28.00	32.00	20.00	25.00	2.50
TRMS070603SAR56MTQ	0.56	25.00	29.00	17.00	22.00	3.31
TRMS070603SAR68MTQ	0.68	21.00	25.00	15.00	20.00	5.17
TRMS070603SA1R0MTQ	1.0	18.00	23.00	13.00	18.00	6.05
TRMS070603SA1R2MTQ	1.2	16.00	22.00	12.00	16.00	7.40
TRMS070603SA1R5MTQ	1.5	15.50	20.00	11.00	15.00	9.13
TRMS070603SA1R8MTQ	1.8	13.00	18.20	10.00	14.00	10.20
TRMS070603SA2R2MTQ	2.2	11.00	15.90	7.00	10.00	12.20
TRMS070603SA3R3MTQ	3.3	9.00	12.20	6.00	8.00	20.80
TRMS070603SA4R5MTQ	4.5	8.00	10.00	5.00	7.00	25.30

TRMS070604SA Series

Part Number	Inductance	Saturation Current		Heat Rating Current		DC Resistance
	L (μH)	Isat(A)		Irms(A)		RDC(mΩ)
	±20 %	Max.	Typ.	20℃ rise	40℃ rise	Max.
TRMS070604SAR47MTQ	0.47	27.00	31.00	19.00	24.00	2.86
TRMS070604SAR68MTQ	0.68	22.00	26.00	16.00	20.50	3.96
TRMS070604SA1R0MTQ	1.0	18.00	23.00	14.00	19.00	5.39
TRMS070604SA1R5MTQ	1.5	13.00	17.00	12.00	16.00	7.04
TRMS070604SA2R2MTQ	2.2	11.50	15.90	8.00	11.00	11.70
TRMS070604SA3R3MTQ	3.3	9.60	12.30	7.00	9.20	15.50
TRMS070604SA4R7MTQ	4.7	8.00	10.20	6.00	7.80	23.10
TRMS070604SA5R6MTQ	5.6	7.80	9.80	5.00	6.70	28.10

TRMS070605SA Series

Part Number	Inductance	Saturation Current		Heat Rating Current		DC Resistance
	L (μH)	Isat(A)		Irms(A)		RDC(mΩ)
	±20 %	Max.	Typ.	20℃ rise	40℃ rise	Max.
TRMS070605SAR82MTQ	0.82	20.00	24.00	16.00	21.00	4.18
TRMS070605SA1R0MTQ	1.0	18.00	23.00	15.00	20.00	4.52
TRMS070605SA1R2MTQ	1.2	16.00	22.00	14.00	18.00	5.83
TRMS070605SA1R5MTQ	1.5	14.50	19.50	13.00	17.00	6.30
TRMS070605SA1R8MTQ	1.8	13.50	18.50	12.00	16.00	7.10
TRMS070605SA2R2MTQ	2.2	12.00	16.00	10.00	13.00	8.50
TRMS070605SA3R3MTQ	3.3	10.00	12.50	8.50	11.00	12.50
TRMS070605SA4R3MTQ	4.3	8.50	11.00	7.00	9.00	16.20
TRMS070605SA4R7MTQ	4.7	8.00	10.50	6.50	8.50	18.40
TRMS070605SA6R8MTQ	6.8	7.00	9.00	5.20	6.60	25.40
TRMS070605SA8R2MTQ	8.2	6.80	8.00	4.50	6.20	31.50

TRMS070606SA Series

Part Number	Inductance	Saturation Current		Heat Rating Current		DC Resistance
	L (μH)	Isat(A)		Irms(A)		RDC(mΩ)
	±20 %	Max.	Typ.	20℃ rise	40℃ rise	Max.
TRMS070606SA1R0MTQ	1.0	19.00	24.00	16.00	21.00	4.40
TRMS070606SA1R5MTQ	1.5	15.00	20.00	13.50	17.50	6.10
TRMS070606SA2R2MTQ	2.2	12.50	16.50	11.00	14.00	8.10
TRMS070606SA3R3MTQ	3.3	11.00	13.00	9.00	12.00	12.30
TRMS070606SA4R7MTQ	4.7	9.30	10.50	8.50	11.00	14.40
TRMS070606SA5R6MTQ	5.6	8.70	9.90	7.60	10.00	15.90
TRMS070606SA6R8MTQ	6.8	8.10	9.20	7.00	9.00	20.80
TRMS070606SA8R2MTQ	8.2	8.00	8.40	6.00	8.00	26.40
TRMS070606SA100MTQ	10	6.80	7.60	5.00	7.00	29.82
TRMS070606SA150MTQ	15	5.00	5.80	4.50	6.00	43.75
TRMS070606SA220MTQ	22	4.80	5.60	3.80	5.00	60.63

TRMS080802SA Series

Part Number	Inductance	Saturation Current		Heat Rating Current		DC Resistance
	L (μH)	Isat(A)		Irms(A)		RDC(mΩ)
	±20 %	Max.	Typ.	20℃ rise	40℃ rise	Max.
TRMS080802SAR15MTQ	0.15	46.00	51.00	18.00	24.00	2.50
TRMS080802SAR27MTQ	0.27	32.00	35.00	16.00	21.00	3.50
TRMS080802SAR31MTQ	0.31	31.00	34.00	14.00	20.00	4.80
TRMS080802SAR33MTQ	0.33	31.00	34.00	13.00	19.00	4.80
TRMS080802SAR47MTQ	0.47	25.00	28.00	12.00	17.00	6.20
TRMS080802SAR68MTQ	0.68	23.00	25.00	10.00	13.00	9.20
TRMS080802SA1R0MTQ	1.0	20.00	23.00	8.00	11.00	10.80
TRMS080802SA1R2MTQ	1.2	18.00	21.00	7.00	10.00	12.80

TRMS080802SA Series

Part Number	Inductance	Saturation Current		Heat Rating Current		DC Resistance
	L (μH)	Isat(A)		Irms(A)		RDC(mΩ)
	±20 %	Max.	Typ.	20℃ rise	40℃ rise	Max.
TRMS080802SA1R5MTQ	1.5	15.00	17.00	6.00	9.00	17.60
TRMS080802SA1R8MTQ	1.8	13.00	15.00	5.50	8.00	19.80

TRMS080803SA Series

Part Number	Inductance	Saturation Current		Heat Rating Current		DC Resistance
	L (μH)	Isat(A)		Irms(A)		RDC(mΩ)
	±20 %	Max.	Typ.	20℃ rise	40℃ rise	Max.
TRMS080803SA1R0MTQ	1.0	28.00	30.00	16.10	21.80	5.00
TRMS080803SA1R5MTQ	1.5	23.50	25.00	12.00	15.30	8.25
TRMS080803SA2R2MTQ	2.2	17.00	19.00	10.00	13.00	13.70
TRMS080803SA2R7MTQ	2.7	13.50	16.00	9.20	11.40	15.40
TRMS080803SA3R3MTQ	3.3	13.00	15.00	8.00	10.00	18.00
TRMS080803SA4R7MTQ	4.7	12.20	13.50	6.90	9.00	26.70
TRMS080803SA5R6MTQ	5.6	11.50	12.50	5.30	7.30	33.20
TRMS080803SA6R8MTQ	6.8	11.00	12.00	4.50	6.80	42.50
TRMS080803SA8R2MTQ	8.2	9.00	10.20	3.00	5.90	48.73

TRMS080805SA Series

Part Number	Inductance	Saturation Current		Heat Rating Current		DC Resistance
	L (μH)	Isat(A)		Irms(A)		RDC(mΩ)
	±20 %	Max.	Typ.	20℃ rise	40℃ rise	Max.
TRMS080805SA2R2MTQ	2.2	17.00	21.00	11.00	14.00	6.40
TRMS080805SA3R3MTQ	3.3	14.00	17.00	10.00	13.00	11.44
TRMS080805SA4R7MTQ	4.7	13.00	15.00	8.50	11.00	15.40
TRMS080805SA5R6MTQ	5.6	11.00	13.00	7.00	10.00	17.20

TRMS080807SA Series

Part Number	Inductance	Saturation Current		Heat Rating Current		DC Resistance
	L (μH)	Isat(A)		Irms(A)		RDC(mΩ)
	±20 %	Max.	Typ.	20℃ rise	40℃ rise	Max.
TRMS080807SA1R0MTQ	1.0	31.80	34.80	20.00	25.00	2.81
TRMS080807SA1R8MTQ	1.8	23.00	25.00	15.80	21.00	4.46
TRMS080807SA3R3MTQ	3.3	15.10	19.40	11.50	15.10	9.42
TRMS080807SA4R7MTQ	4.7	14.00	15.50	10.50	13.60	13.50
TRMS080807SA6R8MTQ	6.8	11.00	12.80	7.00	9.50	19.60

TRMS090908SA Series

Part Number	Inductance	Saturation Current		Heat Rating Current		DC Resistance
	L (μH)	Isat(A)		Irms(A)		RDC(mΩ)
	±20 %	Max.	Typ.	20℃ rise	40℃ rise	Max.
TRMS090908SA1R8MTQ	1.8	24.00	28.00	18.00	24.00	4.00
TRMS090908SA2R2MTQ	2.2	22.00	25.00	16.00	21.50	4.30
TRMS090908SA3R3MTQ	3.3	20.00	23.00	13.50	18.00	7.30
TRMS090908SA4R7MTQ	4.7	17.00	19.00	10.50	14.60	9.80
TRMS090908SA6R8MTQ	6.8	12.50	14.50	8.00	11.30	14.30
TRMS090908SA100MTQ	10	10.00	11.00	6.60	8.70	22.90

TRMS121103SA Series

Part Number	Inductance	Saturation Current		Heat Rating Current		DC Resistance
	L (μH)	Isat(A)		Irms(A)		RDC(mΩ)
	±20 %	Max.	Typ.	20℃ rise	40℃ rise	Max.
TRMS121103SAR28MTQ	0.28	58.00	65.00	25.50	35.00	1.60
TRMS121103SAR56MTQ	0.56	39.00	44.00	23.00	32.00	2.75
TRMS121103SAR82MTQ	0.82	32.00	38.00	18.00	25.00	4.10
TRMS121103SAR90MTQ	0.90	31.00	36.00	17.00	24.00	4.20
TRMS121103SA1R0MTQ	1.0	30.00	35.00	16.00	23.00	4.95
TRMS121103SA1R5MTQ	1.5	25.00	30.00	12.00	18.00	6.60

TRMS121106SA Series

Part Number	Inductance	Saturation Current		Heat Rating Current		DC Resistance
	L (μH)	Isat(A)		Irms(A)		RDC(mΩ)
	±20 %	Max.	Typ.	20℃ rise	40℃ rise	Max.
TRMS121106SAR68MTQ	0.68	50.00	55.00	22.50	34.00	1.50
TRMS121106SA1R0MTQ	1.0	44.00	48.00	20.00	28.50	2.32
TRMS121106SA1R2MTQ	1.2	40.00	45.00	18.00	26.50	2.64
TRMS121106SA1R5MTQ	1.5	36.00	40.00	16.00	24.50	3.30
TRMS121106SA2R2MTQ	2.2	30.00	35.00	14.00	20.00	4.84
TRMS121106SA3R3MTQ	3.3	25.00	28.00	11.40	16.80	7.70
TRMS121106SA4R7MTQ	4.7	22.00	25.00	8.70	14.00	10.72
TRMS121106SA6R8MTQ	6.8	15.50	18.00	6.00	10.50	13.00
TRMS121106SA100MTQ	10	13.00	15.00	4.50	9.00	18.20

TRMS121110SA Series

Part Number	Inductance	Saturation Current		Heat Rating Current		DC Resistance
	L (μH)	Isat(A)		Irms(A)		RDC(mΩ)
	±20 %	Max.	Typ.	20℃ rise	40℃ rise	Max.
TRMS121110SA2R2MTQ	2.2	29.00	34.00	24.50	32.00	2.80
TRMS121110SA3R3MTQ	3.3	23.40	27.40	18.20	25.00	4.10
TRMS121110SA4R7MTQ	4.7	21.40	25.40	17.50	24.00	5.70
TRMS121110SA5R6MTQ	5.6	19.60	23.60	15.70	21.20	7.20
TRMS121110SA6R8MTQ	6.8	18.50	21.80	14.00	18.50	8.90
TRMS121110SA8R2MTQ	8.2	16.30	18.30	12.90	17.10	12.40
TRMS121110SA100MTQ	10	14.60	17.50	11.50	15.50	13.75
TRMS121110SA150MTQ	15	12.50	15.50	9.90	13.80	19.30

TRMS171608SA Series

Part Number	Inductance	Saturation Current		Heat Rating Current		DC Resistance
	L (μH)	Isat(A)		Irms(A)		RDC(mΩ)
	±20 %	Max.	Typ.	20℃ rise	40℃ rise	Max.
TRMS171608SA2R0MTQ	2.0	52.00	57.00	29.50	40.00	2.21
TRMS171608SA2R2MTQ	2.2	49.00	55.00	28.00	37.00	2.48
TRMS171608SA3R0MTQ	3.0	41.00	46.00	16.00	34.50	3.00
TRMS171608SA4R2MTQ	4.2	33.00	38.00	20.50	27.00	4.68
TRMS171608SA5R3MTQ	5.3	31.00	35.00	19.50	16.00	5.34
TRMS171608SA6R2MTQ	6.2	31.00	34.00	17.00	23.00	6.50
TRMS171608SA7R2MTQ	7.2	29.00	32.00	15.00	21.00	7.20
TRMS171608SA8R2MTQ	8.2	25.00	28.00	13.00	19.00	7.92
TRMS171608SA100MTQ	10	21.00	24.00	11.00	16.00	9.60
TRMS171608SA150MTQ	15	18.00	21.00	10.00	13.00	15.00
TRMS171608SA220MTQ	22	16.00	19.00	9.00	12.00	23.20

TRMS171610SA Series

Part Number	Inductance	Saturation Current		Heat Rating Current		DC Resistance
	L (μH)	Isat(A)		Irms(A)		RDC(mΩ)
	±20 %	Max.	Typ.	20°C rise	40°C rise	Max.
TRMS171610SA4R7MTQ	4.7	39.00	43.00	22.00	30.00	3.80
TRMS171610SA5R6MTQ	5.6	34.00	38.00	21.00	28.00	4.20
TRMS171610SA6R8MTQ	6.8	31.00	36.00	20.00	26.00	4.60
TRMS171610SA8R2MTQ	8.2	28.00	32.00	19.00	25.00	7.20
TRMS171610SA100MTQ	10	26.00	29.00	18.00	24.00	8.60
TRMS171610SA150MTQ	15	18.00	20.00	14.00	18.00	11.50
TRMS171610SA220MTQ	22	16.00	18.00	10.50	14.20	15.80
TRMS171610SA330MTQ	33	14.00	16.70	8.60	12.30	20.00

TRMS171613SA Series

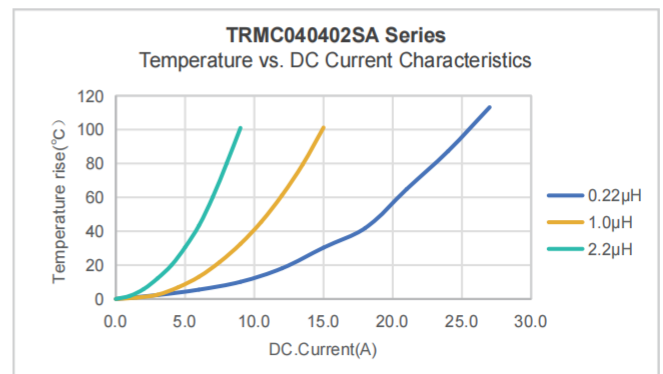
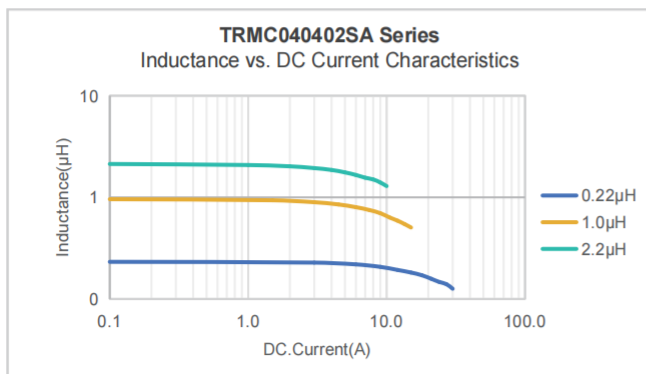
Part Number	Inductance	Saturation Current		Heat Rating Current		DC Resistance
	L (μH)	Isat(A)		Irms(A)		RDC(mΩ)
	±20 %	Max.	Typ.	20°C rise	40°C rise	Max.
TRMS171613SA4R7MTQ	4.7	40.00	44.00	23.00	31.00	3.30
TRMS171613SA5R6MTQ	5.6	35.00	40.00	22.00	29.00	3.90
TRMS171613SA6R8MTQ	6.8	32.00	37.00	21.00	27.00	4.20
TRMS171613SA8R2MTQ	8.2	29.00	33.00	20.00	16.00	5.74
TRMS171613SA100MTQ	10	27.00	30.00	19.00	25.00	7.00
TRMS171613SA150MTQ	15	21.00	25.50	16.00	22.00	7.50
TRMS171613SA220MTQ	22	19.00	22.00	12.00	17.00	13.86
TRMS171613SA330MTQ	33	16.00	19.00	9.00	14.00	22.20

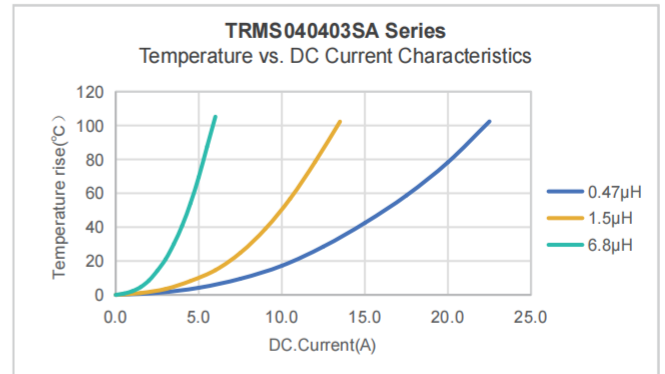
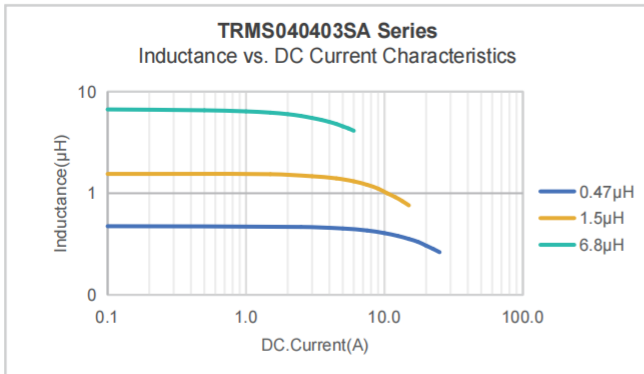
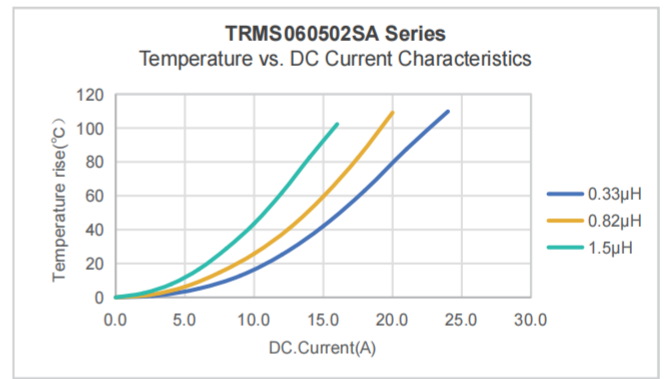
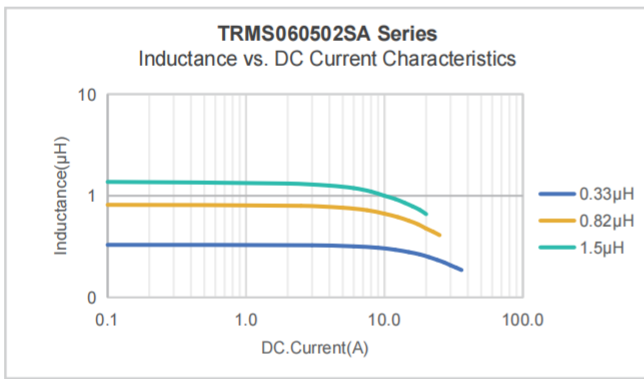
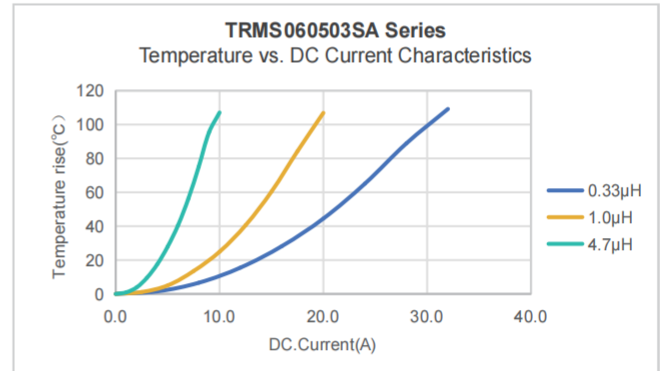
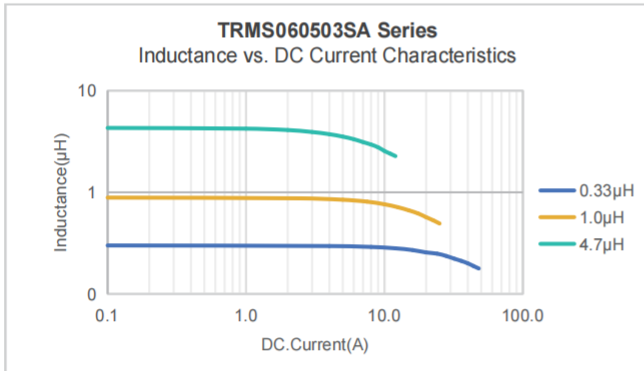
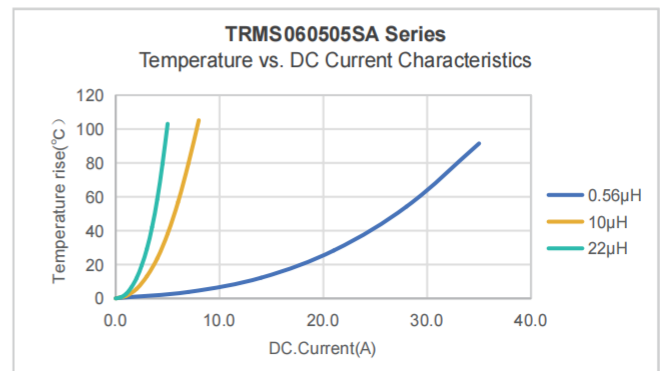
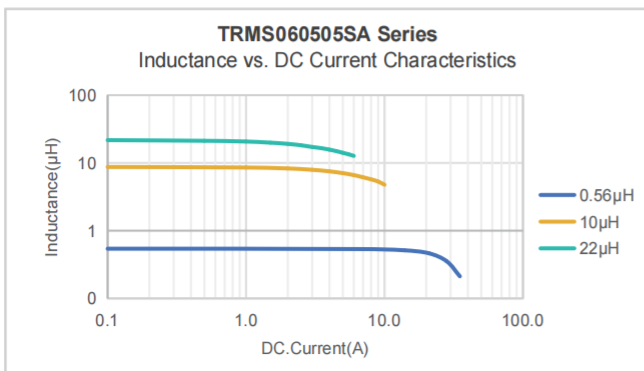
Notes

- Test frequency : L : 100KHz /0.1V.
- All test in 25 °C temperature.
- Testing Instrument:L:HP4285A,CH11025,CH3302,CH1320,CH1320S LCR METER / Rdc:CH16502, MICRO OHMMETER.
- Heating Rating Current (Irms) will cause the coil temperature rise of 40°C approximately (Δt).
- Saturation Current (Isat) will cause L0 to drop 30% approximately.
- The part temperature (ambient + temp rise) should not exceed 155°C under the worst case operating condition. Circuit design, component, PCB trace size and thickness airflow and other cooling provisions all could affect the part temperature. Part temperature should be verified in the end application.

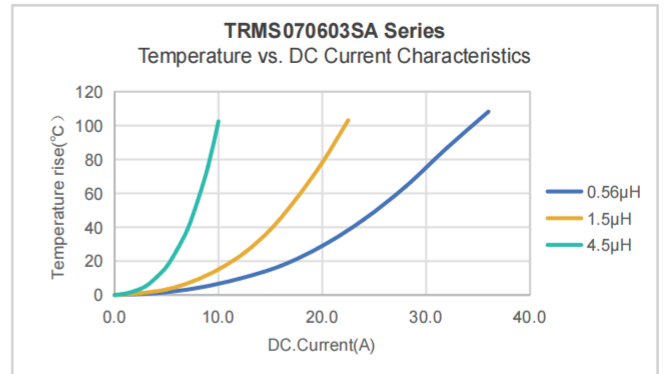
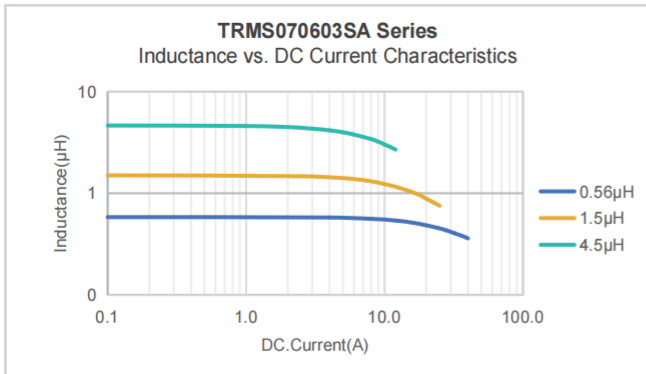
Typical Characteristics Curves

TRMS040402SA Series

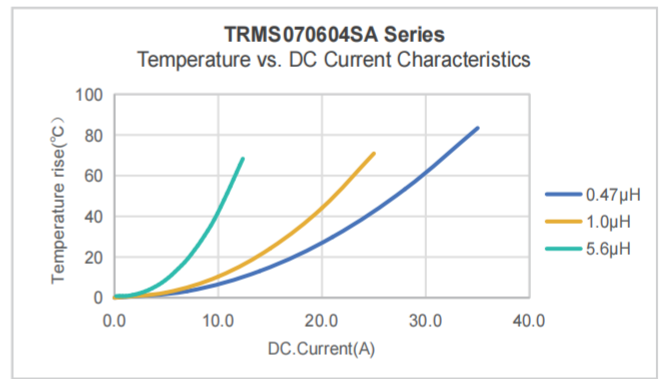
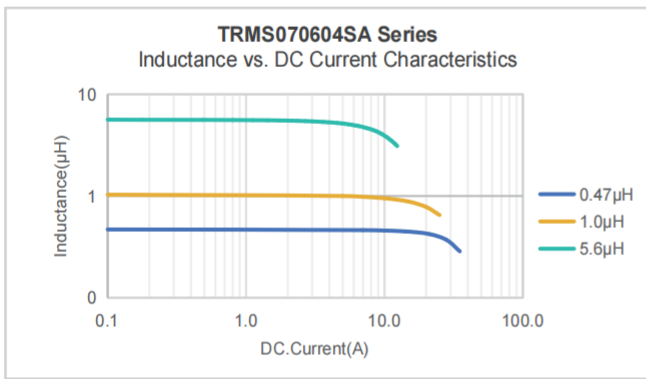


TRMS040403SA Series

TRMS060502SA Series

TRMS060503SA Series

TRMS060505SA Series


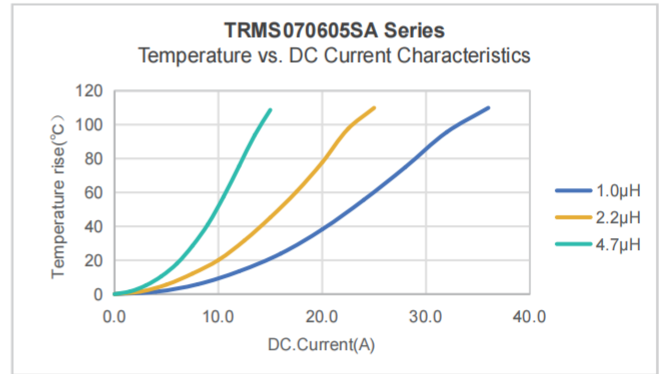
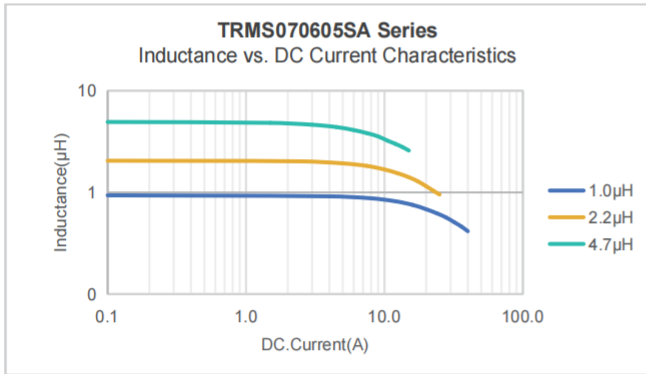
TRMS070603SA Series



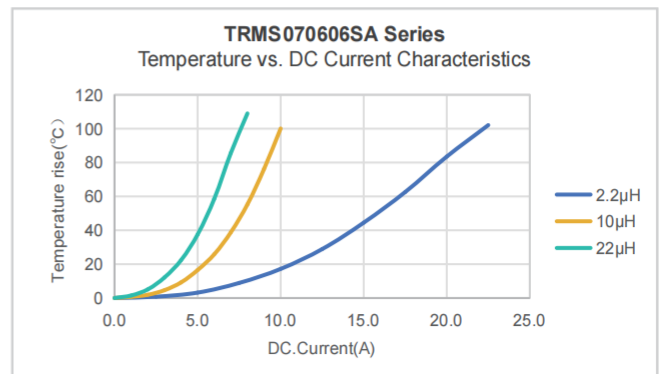
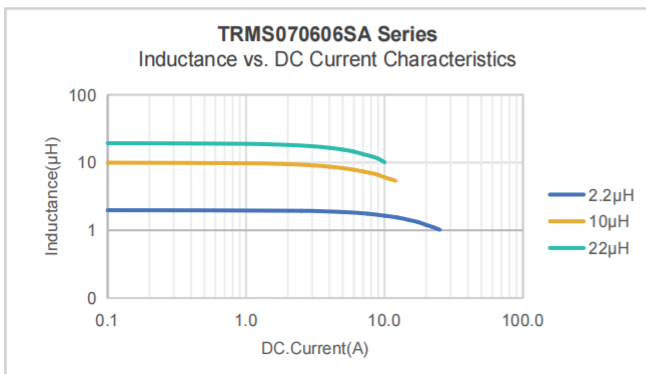
TRMS070604SA Series

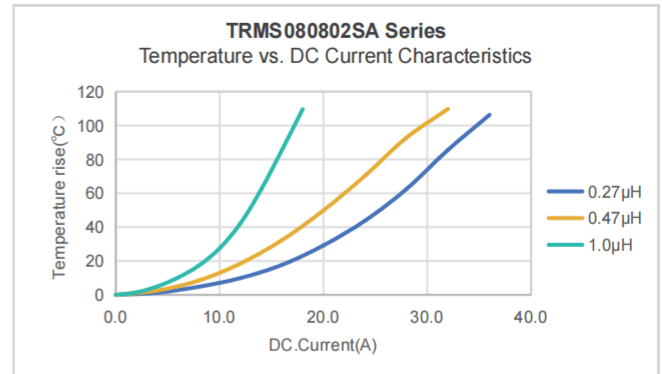
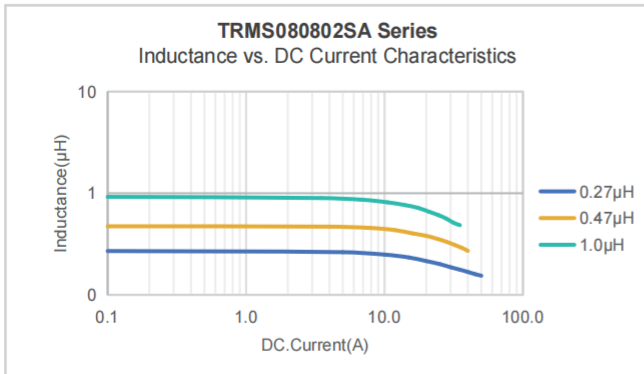
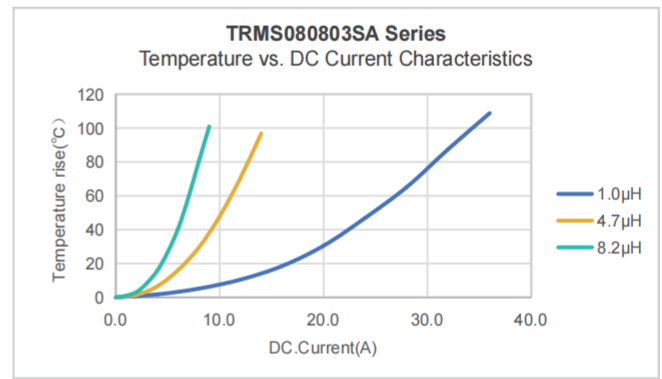
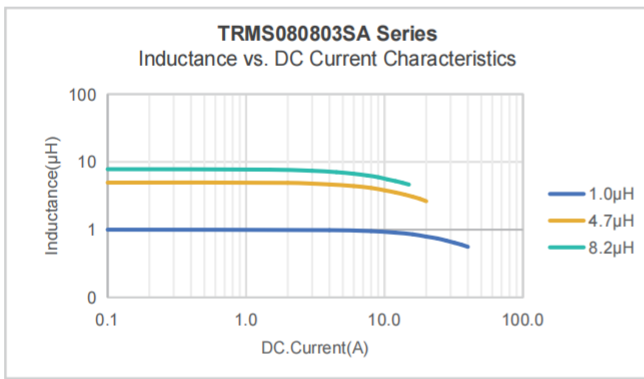
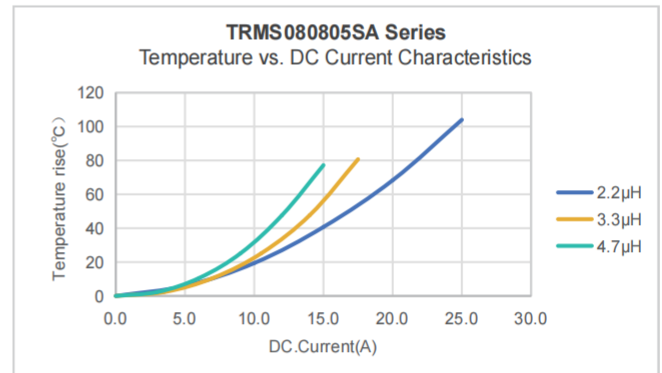
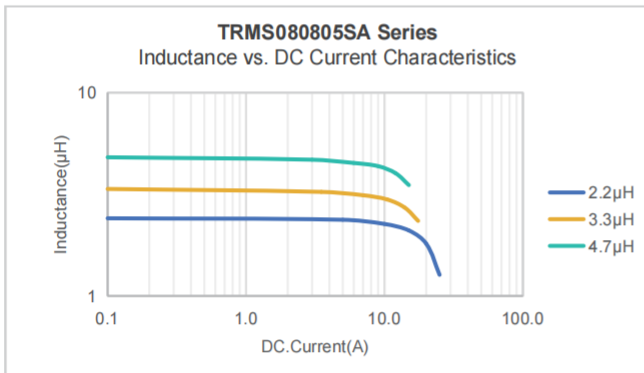
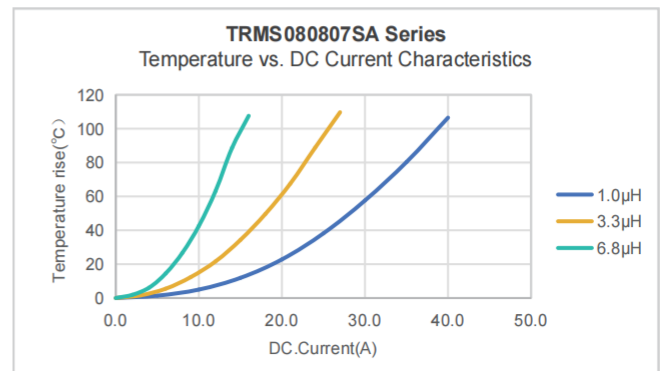
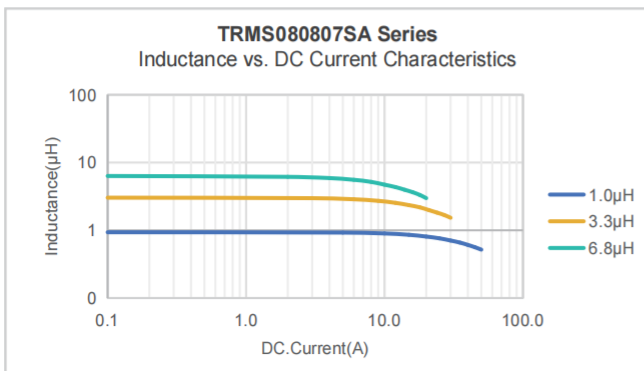


TRMS070605SA Series

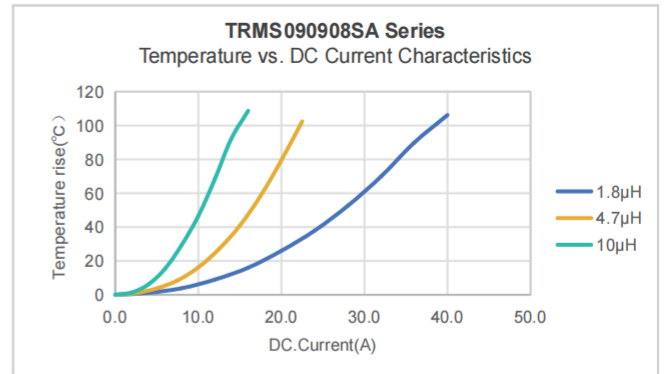
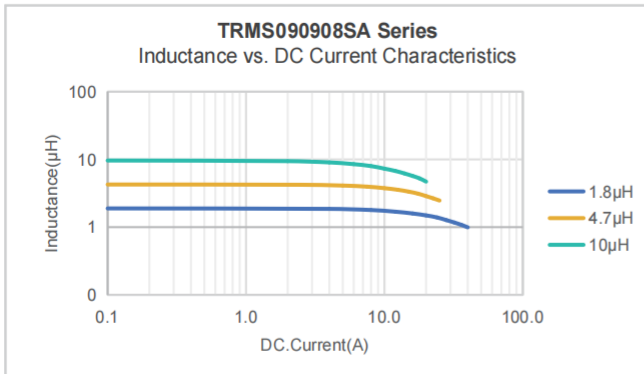


TRMS070606SA Series

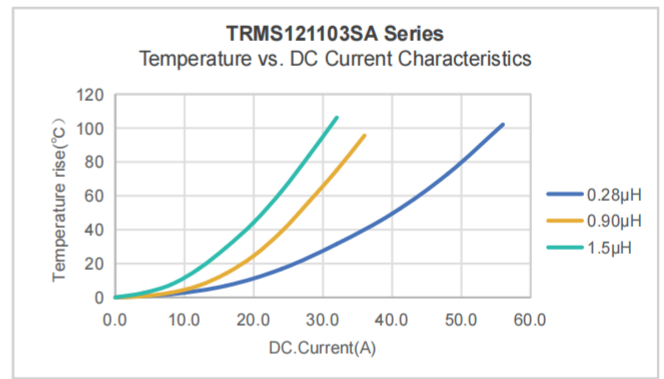
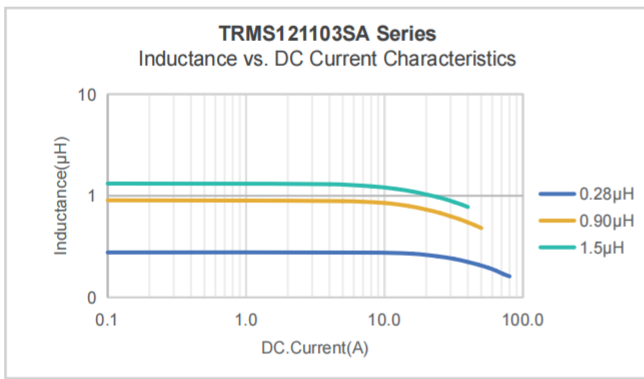


TRMS080802SA Series

TRMS080803SA Series

TRMS080805SA Series

TRMS080807SA Series


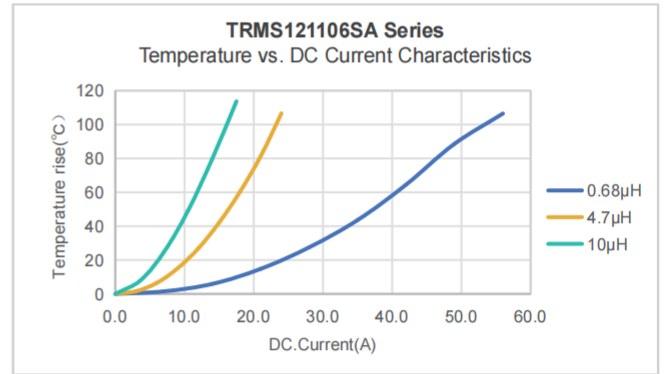
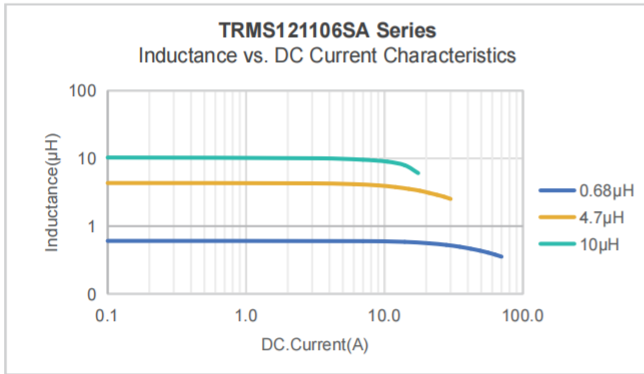
TRMS090908SA Series



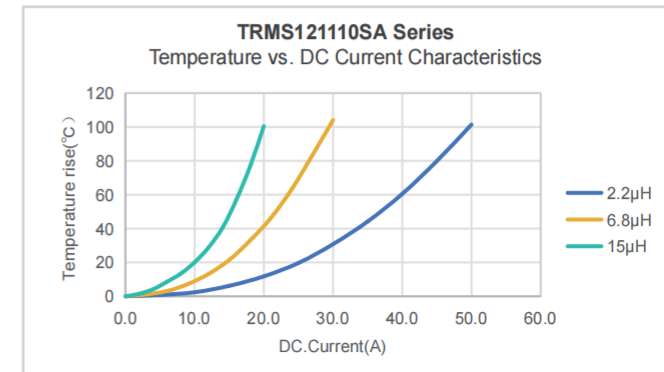
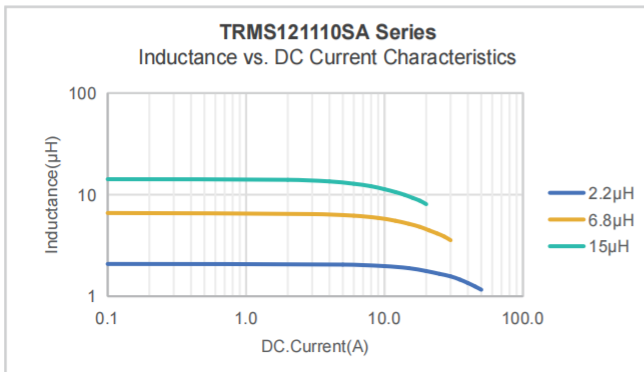
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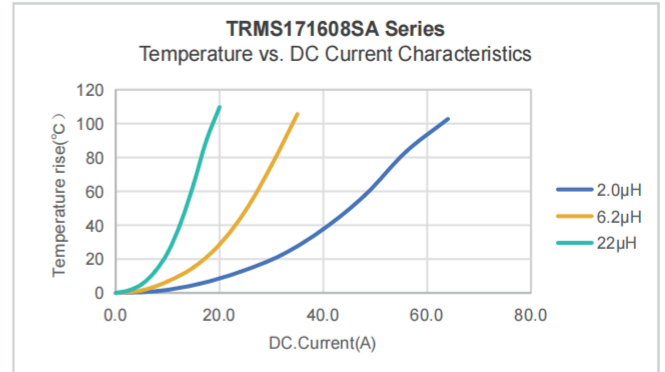
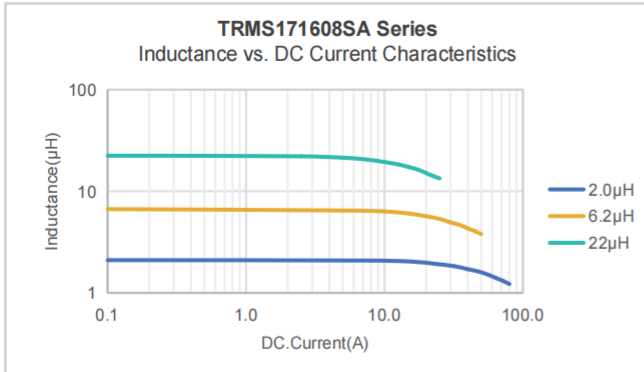
TRMS121106SA Series



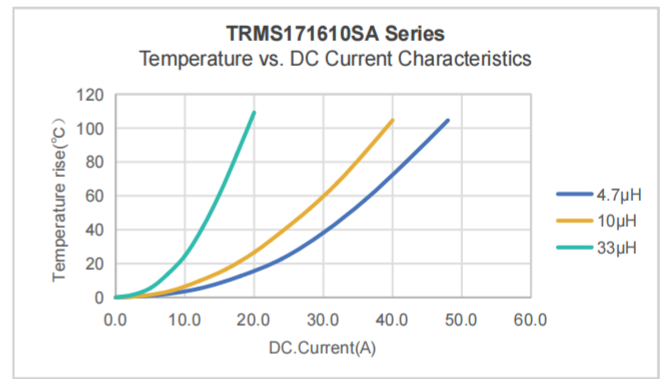
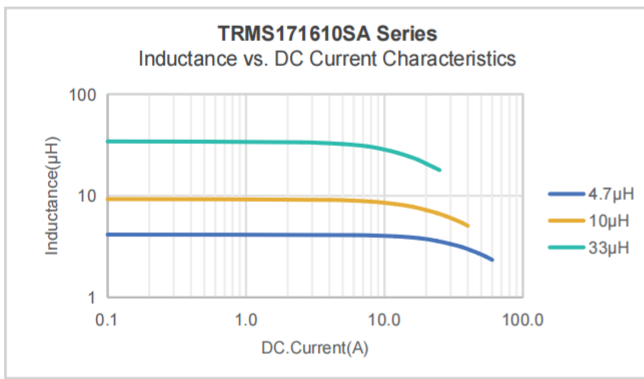
TRMS121110SA Series



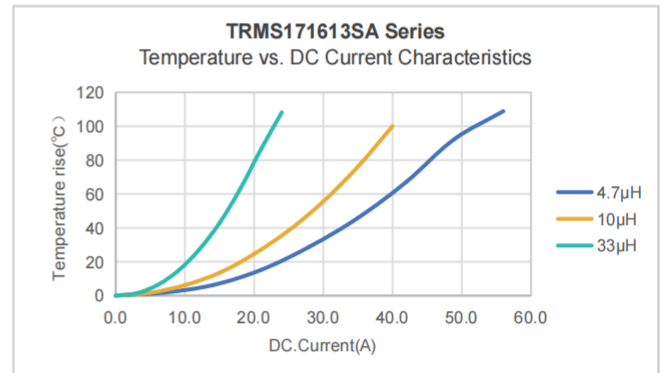
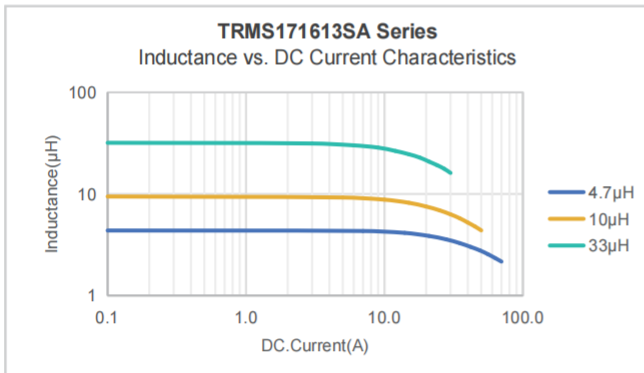
TRMS171608SA Series



TRMS171610SA Series

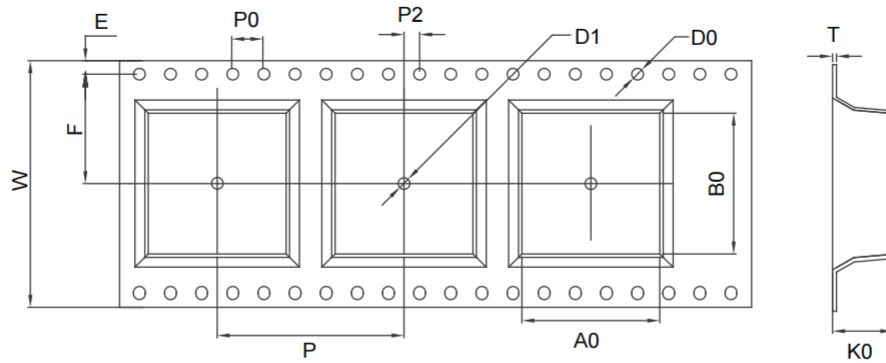


TRMS171613SA Series



Packaging Information

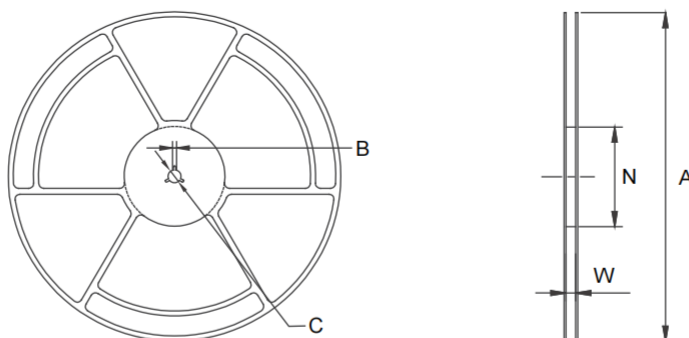
Tape Dimensions



Dimensions

Series	Tape Dimensions (mm)											
	W	P	P0	P2	D0	D1	T	A0	B0	K0	E	F
TRMS040402SA	12±0.3	8±0.1	4±0.1	2±0.1	1.5±0.1	1.5±0.1	0.35±0.05	4.5±0.1	4.5±0.1	2.3±0.1	1.75±0.1	5.5±0.1
TRMS040403SA	12±0.3	8±0.1	4±0.1	2±0.1	1.5±0.1	1.5±0.1	0.35±0.05	4.5±0.1	4.5±0.1	3.3±0.1	1.75±0.1	5.5±0.1
TRMS060502SA	12±0.3	8±0.1	4±0.1	2±0.1	1.5±0.1	1.5±0.1	0.35±0.05	6.0±0.1	5.7±0.1	2.3±0.1	1.75±0.1	5.5±0.1
TRMS060503SA	16±0.3	8±0.1	4±0.1	2±0.1	1.5±0.1	1.5±0.1	0.35±0.05	6.0±0.1	5.7±0.1	3.3±0.1	1.75±0.1	7.5±0.1
TRMS060505SA	16±0.3	8±0.1	4±0.1	2±0.1	1.5±0.1	1.5±0.1	0.4±0.05	6.0±0.1	5.7±0.1	5.3±0.1	1.75±0.1	7.5±0.1
TRMS070603SA	16±0.3	12±0.1	4±0.1	2±0.1	1.5±0.1	1.5±0.1	0.35±0.05	7.0±0.1	6.8±0.1	3.3±0.1	1.75±0.1	7.5±0.1
TRMS070604SA	16±0.3	12±0.1	4±0.1	2±0.1	1.5±0.1	1.5±0.1	0.35±0.01	7.6±0.1	7.3±0.1	4.3±0.1	1.75±0.1	7.5±0.1
TRMS070605SA	16±0.3	12±0.1	4±0.1	2±0.1	1.5±0.1	1.5±0.1	0.4±0.05	7.0±0.1	6.8±0.1	5.3±0.1	1.75±0.1	7.5±0.1
TRMS070606SA	16±0.3	12±0.1	4±0.1	2±0.1	1.5±0.1	1.5±0.1	0.5±0.05	7.0±0.1	6.8±0.1	6.3±0.1	1.75±0.1	7.5±0.1
TRMS080802SA	16±0.3	12±0.1	4±0.1	2±0.1	1.5±0.1	1.5±0.1	0.35±0.05	8.2±0.1	8.0±0.1	2.3±0.1	1.75±0.1	7.5±0.1
TRMS080803SA	16±0.3	12±0.1	4±0.1	2±0.1	1.5±0.1	1.5±0.1	0.35±0.05	8.2±0.1	8.0±0.1	3.3±0.1	1.75±0.1	7.5±0.1
TRMS080805SA	16±0.3	12±0.1	4±0.1	2±0.1	1.5±0.1	1.5±0.1	0.35±0.05	8.8±0.1	8.4±0.1	5.3±0.1	1.75±0.1	7.5±0.1
TRMS080807SA	16±0.3	12±0.1	4±0.1	2±0.1	1.5±0.1	1.5±0.1	0.5±0.05	8.2±0.1	8.0±0.1	7.3±0.1	1.75±0.1	7.5±0.1
TRMS090908SA	24±0.3	16±0.1	4±0.1	2±0.05	1.5±0.1	1.5±0.1	0.5±0.05	9.4±0.1	8.9±0.1	8.5±0.1	1.75±0.1	11.5±0.1
TRMS121103SA	24±0.3	16±0.1	4±0.1	2±0.05	1.5±0.1	1.5±0.1	0.4±0.05	12.4±0.1	11.5±0.1	3.3±0.1	1.75±0.1	11.5±0.1
TRMS121106SA	24±0.3	16±0.1	4±0.1	2±0.05	1.5±0.1	1.5±0.1	0.5±0.05	12.4±0.1	11.5±0.1	6.3±0.1	1.75±0.1	11.5±0.1
TRMS121110SA	24±0.3	16±0.1	4±0.1	2±0.05	1.5±0.1	1.5±0.1	0.5±0.05	12.4±0.1	11.5±0.1	10.3±0.1	1.75±0.1	11.5±0.1
TRMS171608SA	32±0.3	24±0.1	4±0.1	2±0.1	1.5±0.1	\	0.5±0.05	17.0±0.1	16.0±0.1	8.5±0.1	1.75±0.1	14.2±0.1
TRMS171610SA	32±0.3	24±0.1	4±0.1	2±0.1	1.5±0.1	\	0.5±0.05	17.0±0.1	16.0±0.1	10.5±0.1	1.75±0.1	14.2±0.1
TRMS171613SA	32±0.3	24±0.1	4±0.1	2±0.1	1.5±0.1	\	0.5±0.05	17.0±0.1	16.0±0.1	13.6±0.1	1.75±0.1	14.2±0.1

Reel Dimensions



Dimensions

Series	Reel Dimensions (mm)					Quantity
	A	W	N	B	C	Reel
TRMS040402SA	330±2.0	12.8±0.2	97±0.5	2.2±0.5	13.0±0.2	3000 pcs / reel
TRMS040403SA	330±2.0	12.8±0.2	97±0.5	2.2±0.5	13.0±0.2	2000 pcs / reel
TRMS060502SA	330±2.0	12.8±0.2	97±0.5	2.2±0.5	13.2±0.2	3000 pcs / reel
TRMS060503SA	330±2.0	16.8±0.2	97±0.5	2.2±0.5	13.2±0.2	2000 pcs / reel
TRMS060505SA	330±2.0	16.8±0.2	97±0.5	2.2±0.5	13.2±0.2	1500 pcs / reel
TRMS070603SA	330±2.0	16.8±0.2	97±0.5	2.2±0.5	13.2±0.2	1000 pcs / reel
TRMS070604SA	330±2.0	16.4±2	100±0.2	2.0±0.5	13±0.5/0.2	800 pcs / reel
TRMS070605SA	330±2.0	16.8±0.2	97±0.5	2.2±0.5	13.2±0.2	800 pcs / reel
TRMS070606SA	330±2.0	16.8±0.2	97±0.5	2.2±0.5	13.2±0.2	750 pcs / reel
TRMS080802SA	330±2.0	16.8±0.2	97±0.5	2.2±0.5	13.2±0.2	2000pcs / reel
TRMS080803SA	330±2.0	16.8±0.2	97±0.5	2.2±0.5	13.2±0.2	1500pcs / reel
TRMS080805SA	330±2.0	16.4±2	100±0.2	2.0±0.5	13±0.5/0.2	800 pcs / reel
TRMS080807SA	330±2.0	16.8±0.2	97±0.5	2.2±0.5	13.2±0.2	700pcs / reel
TRMS090908SA	330±2.0	24±0.5	97±0.5	2.2±0.5	13.0±0.2	450pcs / reel
TRMS121103SA	330±2.0	24±0.5	97±0.5	2.2±0.5	13.0±0.2	1000 pcs / reel
TRMS121106SA	330±2.0	24±0.5	97±0.5	2.2±0.5	13.0±0.2	500 pcs / reel
TRMS121110SA	330±2.0	24±0.5	97±0.5	2.2±0.5	13.0±0.2	300 pcs / reel
TRMS171608SA	330±2.0	32.0±0.5	97±0.5	2.3±0.3	13.0±0.2	200 pcs / reel
TRMS171610SA	330±2.0	32.0±0.5	97±0.5	2.3±0.3	13.0±0.2	150 pcs / reel
TRMS171613SA	330±2.0	32.0±0.5	97±0.5	2.3±0.3	13.0±0.2	100 pcs / reel