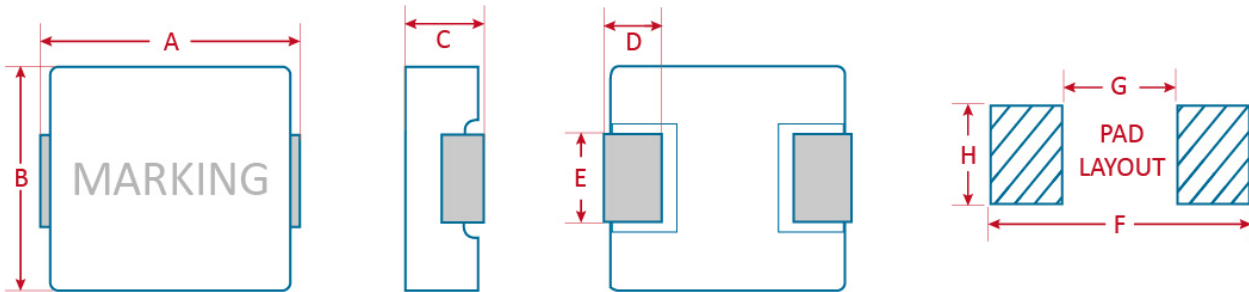


SPECIFICATION FOR APPROVED 樣品承認書

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NEW

機構圖 Shape and Dimensions(mm):



Item	A	B	C	D	E	F	G	H
SAR3012	3.4 ± 0.2	3.0 ± 0.2	1.0 ± 0.2	0.7 ± 0.3	1.3 ± 0.3	4.2 Typ.	1.2 Typ.	2.0 Typ.

印字Marking：印字顏色因生產設備而有所差異

SAR3012

Part No.	L(uH)	DCR(mΩ)		Isat(A)	Irms(A)	Tolerance (±%)
		Typ.	Max.	Typ.	Typ.	
SAR3012MTR12	0.12	4.3	5.5	17.0	11.0	±20%
SAR3012MTR22	0.22	9.6	12.0	12.0	9.0	±20%
SAR3012MTR33	0.33	15.8	18.0	9.6	7.2	±20%
SAR3012MTR47	0.47	22.0	25.0	8.2	6.2	±20%
SAR3012MT1R0	1.00	39.2	45.0	5.8	4.0	±20%
SAR3012MT2R2	2.20	88.0	102.0	4.0	2.6	±20%
SAR3012MT3R3	3.30	136.0	155.0	3.2	1.8	±20%
SAR3012MT4R7	4.70	160.0	190.0	2.0	1.4	±20%

SPECIFICATION FOR APPROVED 樣品承認書

2022
NEW

Ordering information

SAR - 3012 - MT - R33

(1) (2) (3)(4) (5)

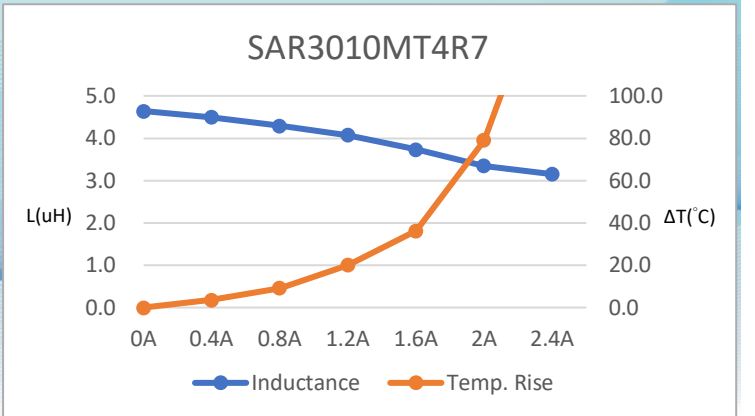
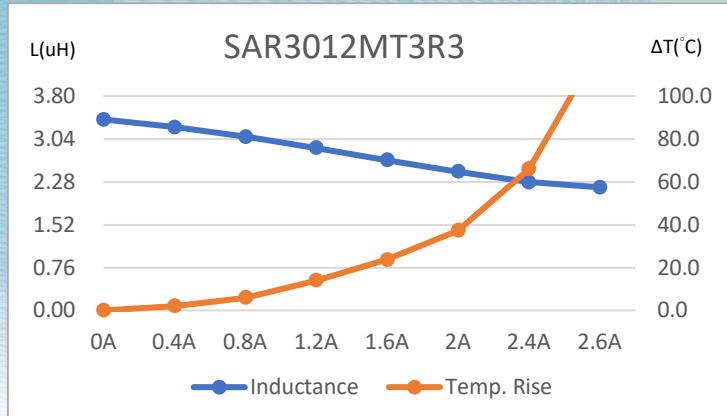
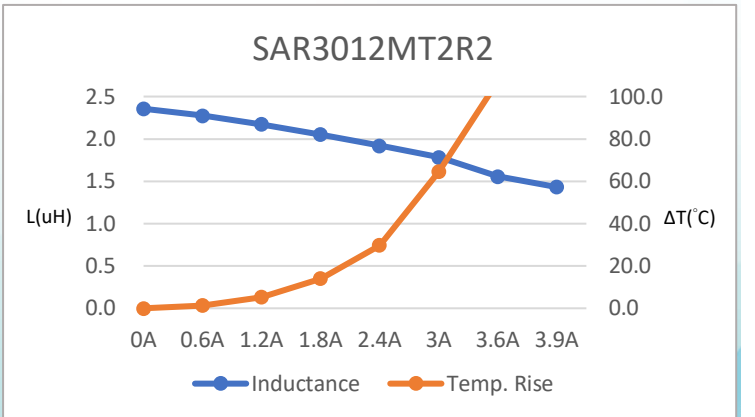
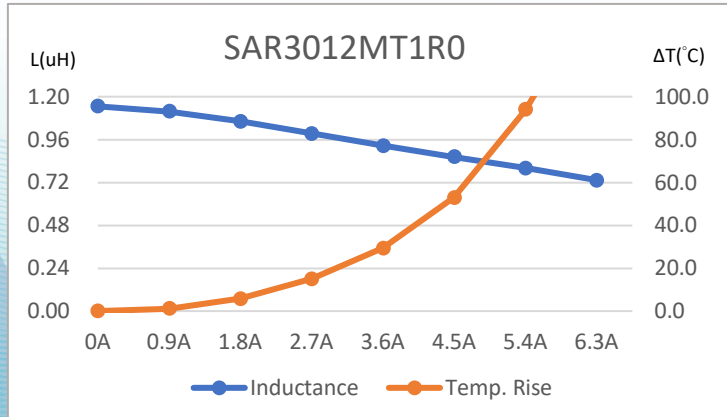
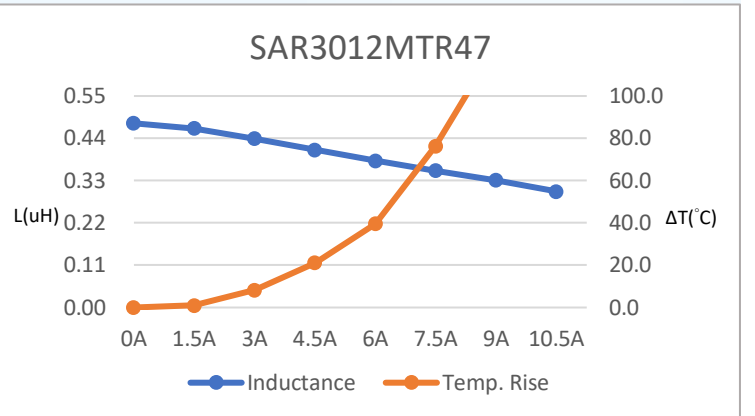
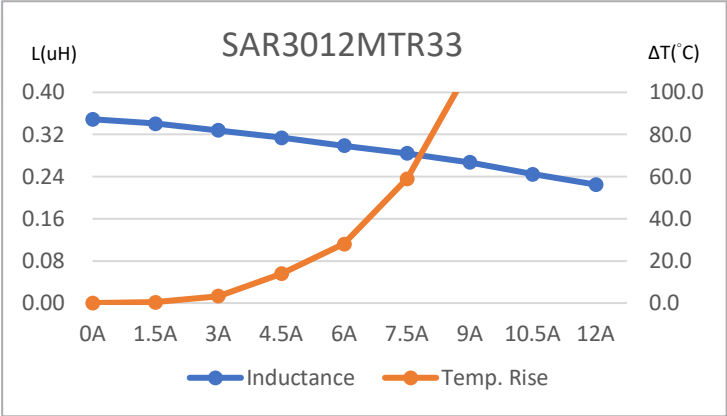
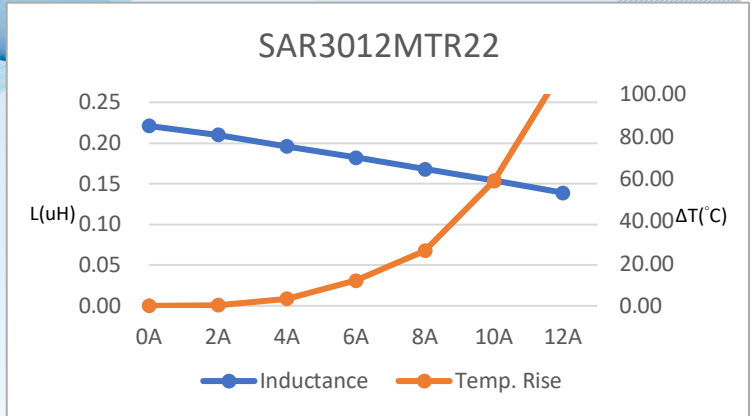
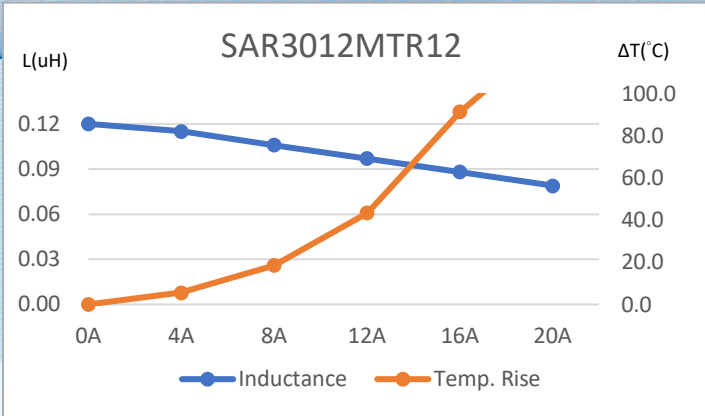
- (1) Type : High Power Inductor
- (2) Size : 3012 is size
- (3) Tolerance : M=20%
- (4) Packaging style : Taping Reel
- (5) Inductance : R33 for 0.33uH,1R0 for 1.0uH,2R2 for 2.2uH...

Characteristics

- All test data is referred to 20°C ambient.
- Isat : DC current (A) that will cause Lo to drop approximately 30% (Typical)
- Irms : DC current (A)that will cause an approximate ΔT of 40°C (Typical)
- Operating temperature range : -55°C to +125°C

Test equipment

- Test Frequency : 1MHz ,1.0 Vrms.
- L :WK3260B
- DCR : HIOKI RM 3545



SAR3012MTR12

DC BIAS	0A	4A	8A	12A	16A	20A
Inductance	0.120	0.115	0.106	0.097	0.088	0.079
Temp. Rise	0.00	5.57	18.49	43.50	91.50	129.00

SAR3012MTR22

DC BIAS	0A	2A	4A	6A	8A	10A	12A
Inductance	0.221	0.210	0.196	0.182	0.168	0.154	0.139
Temp. Rise	0.00	0.35	3.30	11.98	26.00	59.00	112.00

SAR3012MTR33

DC BIAS	0A	1.5A	3A	4.5A	6A	7.5A	9A	10.5A	12A
Inductance	0.349	0.341	0.328	0.314	0.299	0.284	0.267	0.245	0.225
Temp. Rise	0.0	0.35	3.30	13.98	28.00	59.00	112.0	180.0	180.0

SAR3012MTR47

DC BIAS	0A	1.5A	3A	4.5A	6A	7.5A	9A	10.5A
Inductance	0.479	0.466	0.439	0.410	0.382	0.356	0.331	0.302
Temp. Rise	0.0	1.03	8.22	21.10	39.60	76.30	124.0	180.0

SAR3012MT1R0

DC BIAS	0A	0.9A	1.8A	2.7A	3.6A	4.5A	5.4A	6.3A
Inductance	1.146	1.118	1.061	0.993	0.926	0.862	0.800	0.733
Temp. Rise	0.0	1.10	5.80	15.06	29.42	53.00	94.04	150.00

SAR3012MT2R2

DC BIAS	0A	0.6A	1.2A	1.8A	2.4A	3A	3.6A	3.9A
Inductance	2.356	2.274	2.172	2.051	1.919	1.782	1.555	1.431
Temp. Rise	0.0	1.28	5.33	14.10	29.80	64.50	107.0	123.0

SAR3012MT3R3

DC BIAS	0A	0.4A	0.8A	1.2A	1.6A	2A	2.4A	2.6A
Inductance	3.383	3.246	3.079	2.877	2.664	2.461	2.271	2.181
Temp. Rise	0.0	2.07	5.88	13.90	23.60	37.20	65.90	123.00

SAR3012MT4R7

DC BIAS	0A	0.4A	0.8A	1.2A	1.6A	2A	2.4A
Inductance	4.642	4.493	4.290	4.073	3.730	3.350	3.150
Temp. Rise	0.0	3.63	9.20	20.1	36.3	79.0	165.9

TAPE AND REEL SPECIFICATIONS

