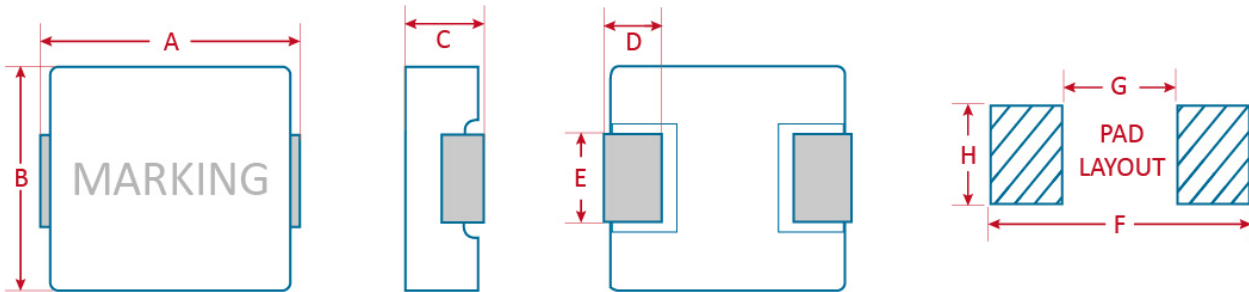


SPECIFICATION FOR APPROVED 樣品承認書

2022
NEW

機構圖 Shape and Dimensions(mm):



Item	A	B	C	D	E	F	G	H
SAR3020	3.4 ± 0.2	3.0 ± 0.2	1.8 ± 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

SAR3020

Part No.	L(μH)	DCR(mΩ)		Isat(A)	Irms(A)	Tolerance (±%)
		Typ.	Max.	Typ.	Typ.	
SAR3020MTR22	0.22	8.0	10.0	16.0	10.0	±20%
SAR3020MTR33	0.33	12.0	15.0	14.0	9.0	±20%
SAR3020MTR47	0.47	15.0	18.0	12.0	8.0	±20%
SAR3020MTR68	0.68	22.0	26.0	10.0	7.0	±20%
SAR3020MT1R0	1.00	25.0	30.0	8.0	5.0	±20%
SAR3020MT1R5	1.50	34.0	39.0	6.0	4.2	±20%
SAR3020MT2R2	2.20	60.0	69.0	4.8	3.3	±20%
SAR3020MT3R3	3.30	70.0	83.0	4.0	2.8	±20%
SAR3020MT4R7	4.70	120.0	144.0	3.5	2.4	±20%
SAR3020MT6R8	6.80	153.0	184.0	3.0	1.6	±20%
SAR3020MT100	10.00	224.0	260.0	1.8	1.3	±20%

SPECIFICATION FOR APPROVED 樣品承認書

HT 宏信科技股份有限公司
HT-TECH CORPORATION

2022
NEW

Ordering information

SAR - 3020 - MT - R33

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

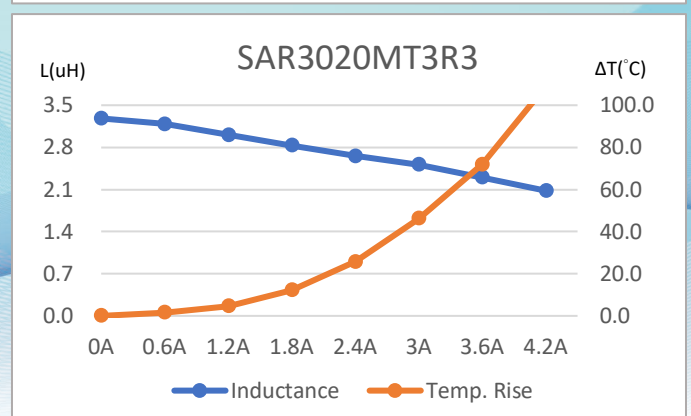
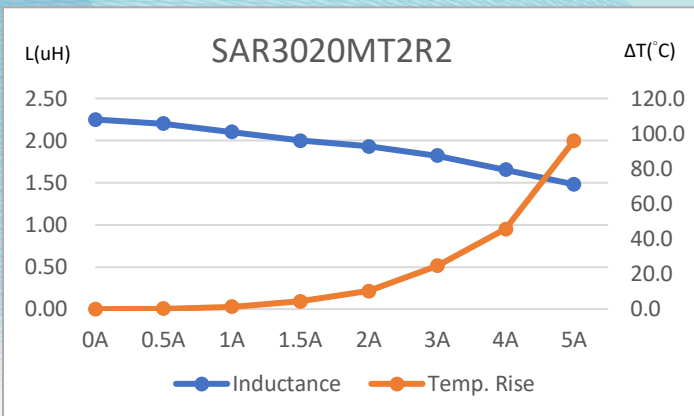
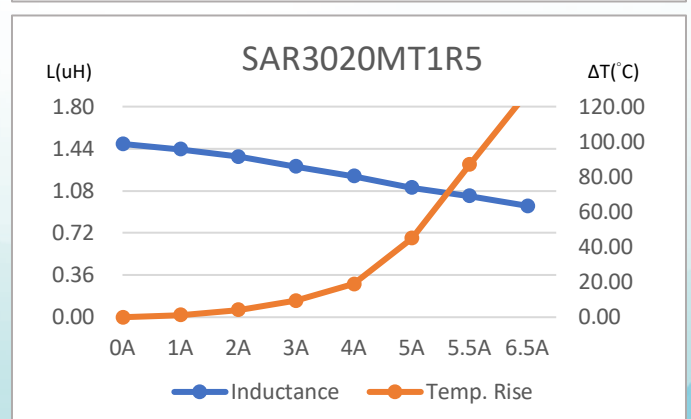
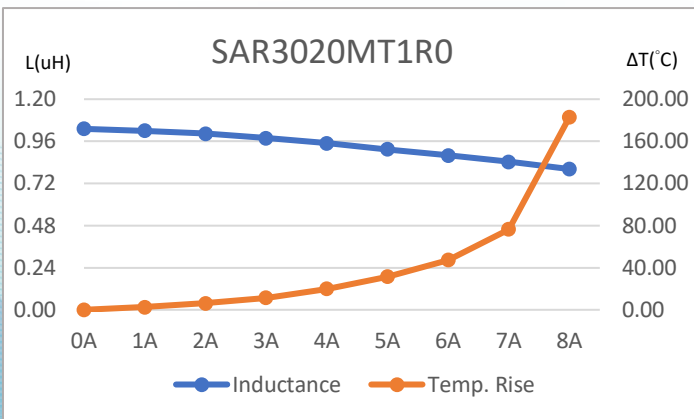
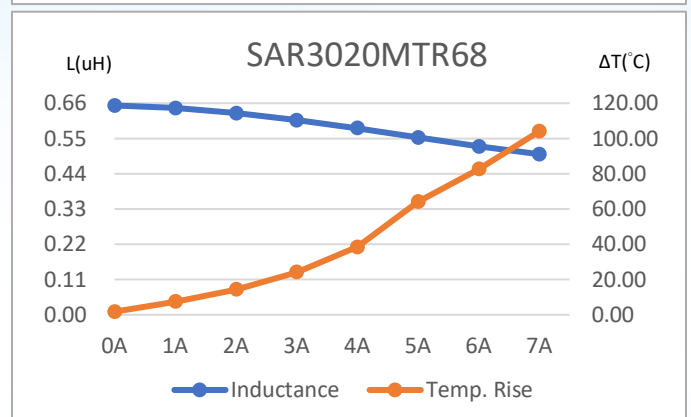
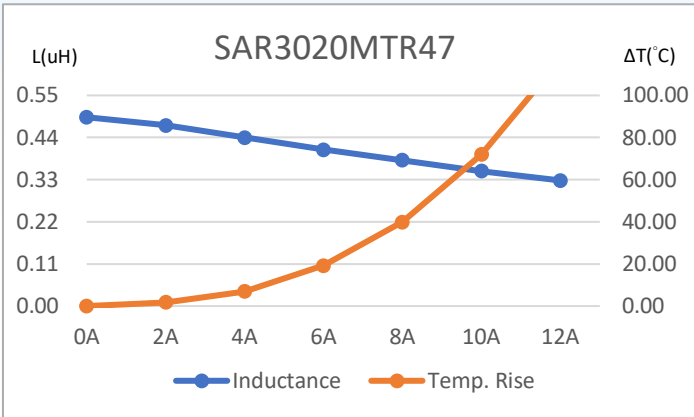
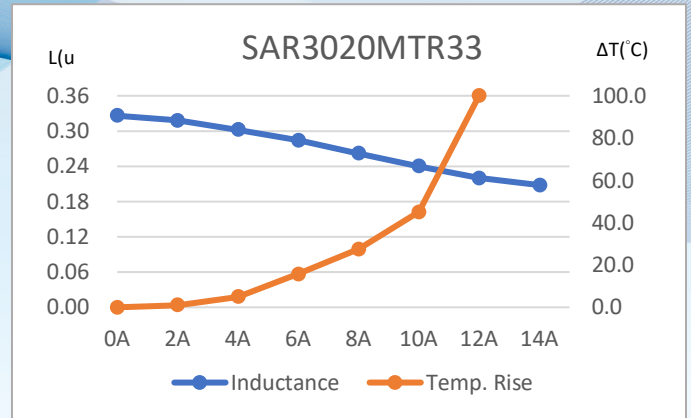
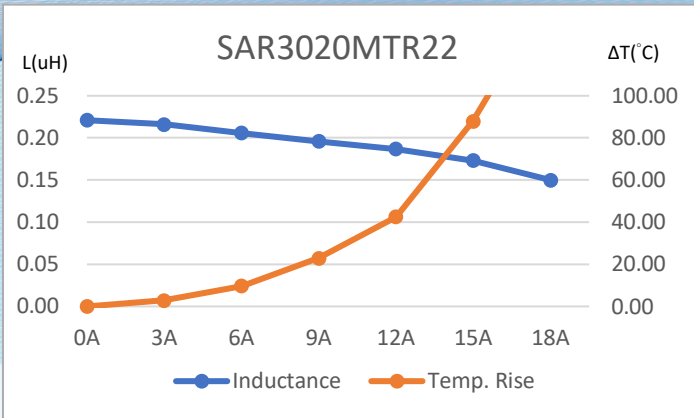
- (1) Type : High Power Inductor
- (2) Size : 3020 is size
- (3) Tolerance : M=20%
- (4) Packaging style : Taping Reel
- (5) Inductance : R33 for 0.33uH,1R0 for 1.0uH,2R2 for 2.2uH...

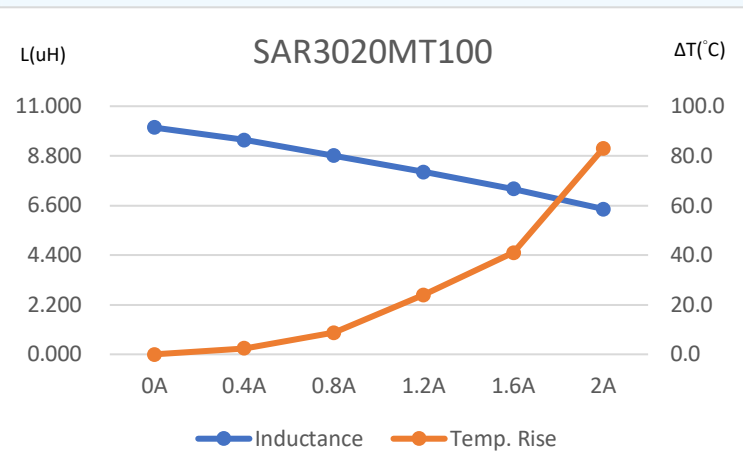
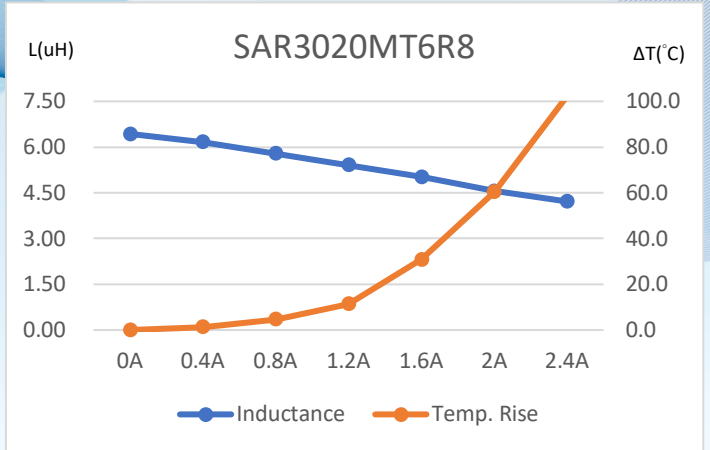
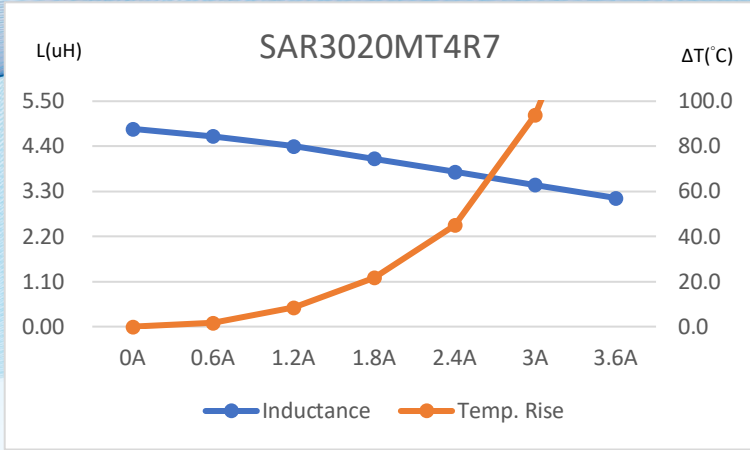
Characteristics

- 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





SAR3020MT4R7							
DC BIAS	0A	0.6A	1.2A	1.8A	2.4A	3A	3.6A
Inductance	4.826	4.644	4.405	4.094	3.775	3.458	3.140
Temp. Rise	0.0	1.7	8.5	21.7	45.0	94.0	182.0

SAR3020MT6R8							
DC BIAS	0A	0.4A	0.8A	1.2A	1.6A	2A	2.4A
Inductance	6.432	6.162	5.790	5.406	5.018	4.555	4.216
Temp. Rise	0.0	1.26	4.65	11.40	30.80	60.30	102.30

SAR3020MT100						
DC BIAS	0A	0.4A	0.8A	1.2A	1.6A	2A
Inductance	10.050	9.510	8.812	8.080	7.328	6.444
Temp. Rise	0.0	2.4	8.7	24.0	41.0	83.0

SAR3020MTR22

DC BIAS	0A	3A	6A	9A	12A	15A	18A
Inductance	0.221	0.216	0.206	0.196	0.187	0.173	0.150
Temp. Rise	0.00	2.84	9.67	22.94	42.50	88.00	150.00

SAR3020MTR33

DC BIAS	0A	2A	4A	6A	8A	10A	12A	14A
Inductance	0.326	0.318	0.302	0.284	0.262	0.240	0.220	0.208
Temp. Rise	0.0	0.98	5.00	15.70	27.50	45.00	100.0	

SAR3020MTR47

DC BIAS	0A	2A	4A	6A	8A	10A	12A
Inductance	0.493	0.472	0.440	0.408	0.381	0.352	0.328
Temp. Rise	0.00	1.70	6.90	19.22	39.90	72.00	117.0

SAR3020MTR68

DC BIAS	0A	1A	2A	3A	4A	5A	6A	7A
Inductance	0.653	0.645	0.629	0.607	0.582	0.553	0.525	0.501
Temp. Rise	1.75	7.46	14.23	24.10	38.49	64.13	82.57	104.00

SAR3020MT1R0

DC BIAS	0A	1A	2A	3A	4A	5A	6A	7A	8A
Inductance	1.031	1.021	1.004	0.979	0.949	0.914	0.880	0.844	0.802
Temp. Rise	0.00	2.55	6.07	11.36	19.83	31.30	47.30	76.50	183.0

SAR3020MT1R5

DC BIAS	0A	1A	2A	3A	4A	5A	5.5A	6.5A
Inductance	1.481	1.435	1.372	1.287	1.204	1.107	1.035	0.952
Temp. Rise	0.00	1.27	4.20	9.40	18.80	45.00	87.0	128.0

SAR3020MT2R2

DC BIAS	0A	0.5A	1A	1.5A	2A	3A	4A	5A
Inductance	2.250	2.200	2.100	2.000	1.930	1.820	1.655	1.480
Temp. Rise	0.0	0.23	1.40	4.40	10.30	24.60	45.70	96.0

SAR3020MT3R3

DC BIAS	0A	0.6A	1.2A	1.8A	2.4A	3A	3.6A	4.2A
Inductance	3.281	3.189	3.005	2.830	2.656	2.510	2.300	2.080
Temp. Rise	0.0	1.64	4.70	12.30	25.70	46.20	72.00	109.0

TAPE AND REEL SPECIFICATIONS

