

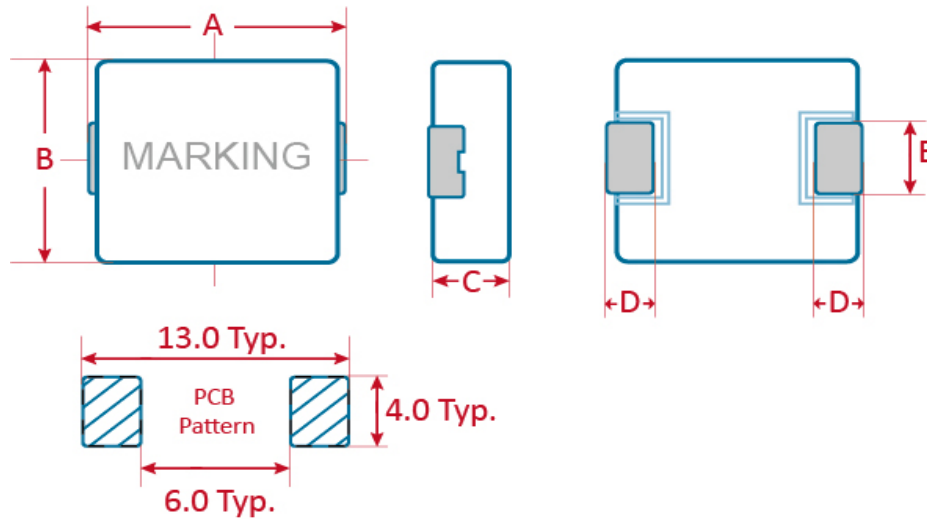
### 製作變更記錄

製作履歷	料號	日期	版本	製作	檢查	審核
1. 系列SPEC 發行	SAR1040-M 系列	2022/8/26	V1	Vincent	Tony	Alan
製作履歷		日期	版本	製作	檢查	審核
2. SAR1040MT220-M 原DCR為72mΩ， 上修為66mΩ。		2022/10/13	V2	Vincent	Tony	Alan
3. SAR1040MT470-M 原DCR為158mΩ， 上修為143mΩ。		2022/10/18	V3	Vincent	Tony	Alan
4. SAR1040MT100-M 原ISAT為7.0A，上修 為7.5A；原IRMS為5.5A，上修為6.1A。						
SAR1040MT330-M 原DCR為110mΩ， 上修為91mΩ；原IRMS為3.2A，上修為 3.5A。		2022/10/20	v4	Vincent	Tony	Alan
SAR1040MT470-M 原IRMS為2.8A，上修 為3.0A。						
5. 增加 SAR1040MTR33-M。		2022/11/8	V5	Vincent	Tony	Alan
6. 增加 SAR1040MT2R7-M。		2023/9/19	V6	Allen	Darren	Alan
7. 增加 SAR1040MTR18-M。		2023/10/12	V7	Allen	Darren	Alan

# SPECIFICATION FOR APPROVED 樣品承認書

2023  
NEW

## 機構圖 Shape and Dimensions(mm) :



Item	A	B	C	D	E	
SAR1040-M	11.6 Max.	10.1 ± 0.3	4.0 Max.	2.5 ± 0.5	2.5 ± 0.5	Non Lead frame type(1R0/1R5)
					3.0 ± 0.5	Non Lead frame type (R18~R68) Lead frame type (2R2~101)

印字Marking：印字顏色因生產設備而有所差異

## SAR1040-M

Part No.	L(uH)	DCR(mΩ)		Isat(A)	Irms(A)	Tolerance (±%)
		Max.		Typ.	Typ.	
SAR1040MTR18-M	0.18	0.6		46	35	±20%
SAR1040MTR22-M	0.22	0.8		45	30	±20%
SAR1040MTR33-M	0.33	1.15		43	27	±20%
SAR1040MTR36-M	0.36	1.2		42	27	±20%
SAR1040MTR47-M	0.47	1.5		32	25	±20%
SAR1040MTR56-M	0.56	1.8		31	24	±20%
SAR1040MTR68-M	0.68	2.0		30	23	±20%
SAR1040MT1R0-M	1.0	3.1		26	20	±20%
SAR1040MT1R5-M	1.5	4.2		22	16	±20%
SAR1040MT2R2-M	2.2	7.0		16	14	±20%
SAR1040MT2R7-M	2.7	12.0		13	11	±20%
SAR1040MT3R3-M	3.3	13.2		12	11	±20%
SAR1040MT4R7-M	4.7	16.5		12	9.0	±20%
SAR1040MT5R6-M	5.6	20		11	7.0	±20%

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2023  
NEW

Part No.	L(uH)	DCR(mΩ)		Isat(A)		Tolerance (±%)
		Max.	Typ.	Typ.	Typ.	
SAR1040MT6R8-M	6.8	25	12	7.0	±20%	
SAR1040MT8R2-M	8.2	30	9.0	6.0	±20%	
SAR1040MT100-M	10	30	7.5	6.1	±20%	
SAR1040MT150-M	15	45	6.0	5.25	±20%	
SAR1040MT220-M	22	66	5.5	5.0	±20%	
SAR1040MT330-M	33	91	5.0	3.5	±20%	
SAR1040MT470-M	47	143	3.7	3.0	±20%	
SAR1040MT560-M	56	180	3.5	2.6	±20%	
SAR1040MT680-M	68	195	2.6	2.5	±20%	
SAR1040MT820-M	82	250	2.3	2.2	±20%	
SAR1040MT101-M	100	300	2.0	1.5	±20%	

## Ordering information

### SAR - 1040 - MT - R22

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

- (1) Type : High Power Inductor
- (2) Size : 1040 is size
- (3) Tolerance : M=20%
- (4) Packaging style : Taping Reel
- (5) Inductance : R47 for 0.47uH,1R0 for 1.0uH,2R2 for 2.2uH...

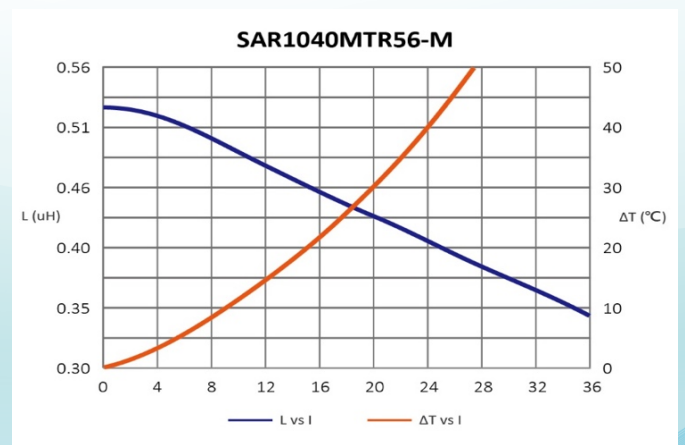
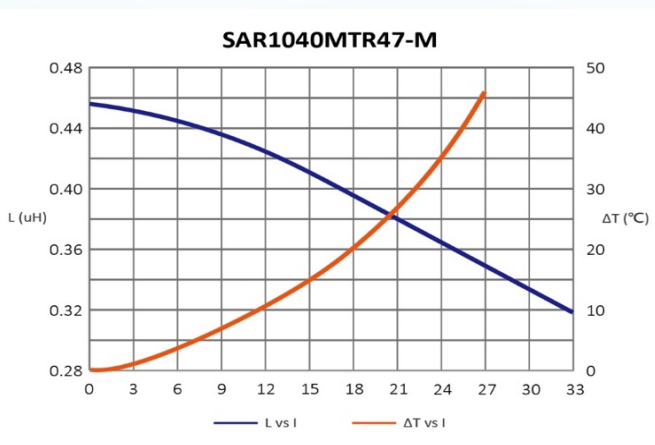
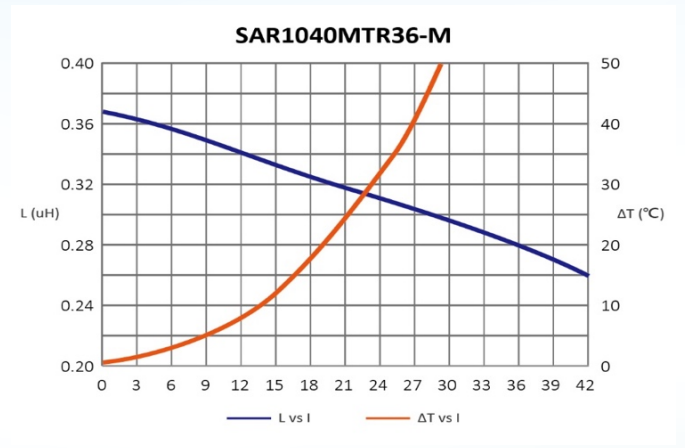
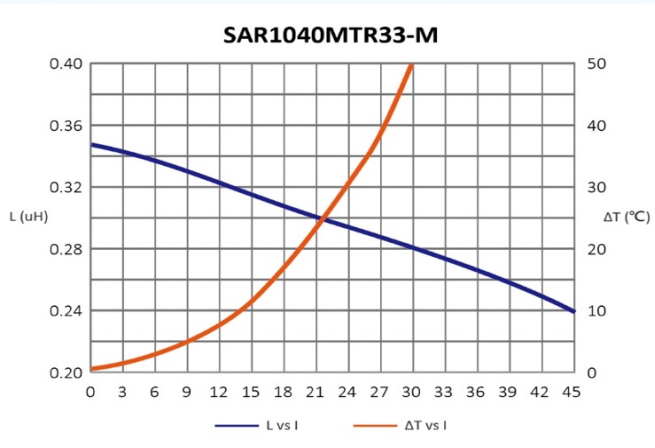
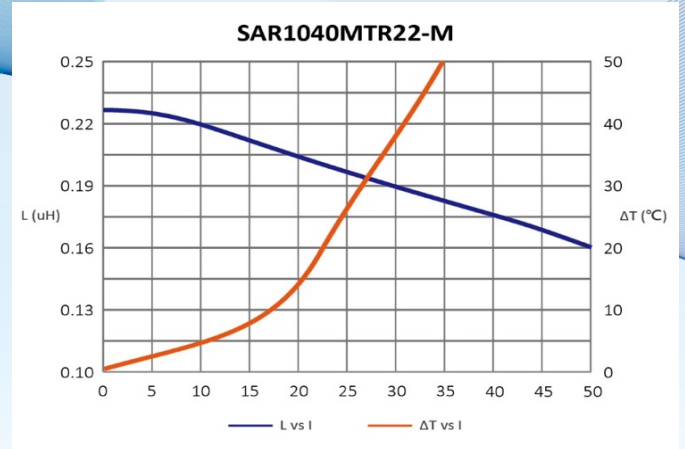
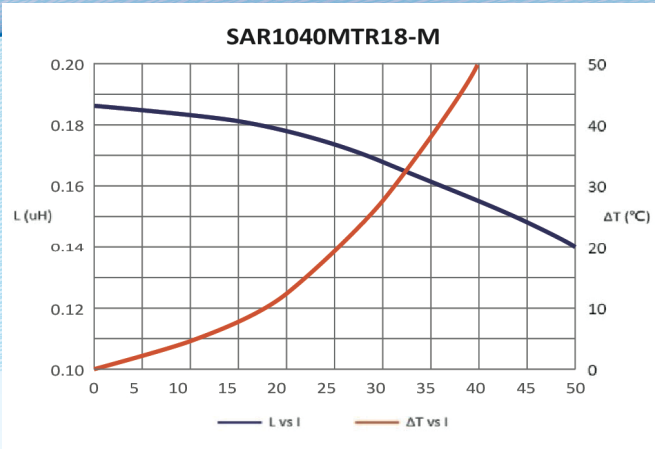
## Characteristics

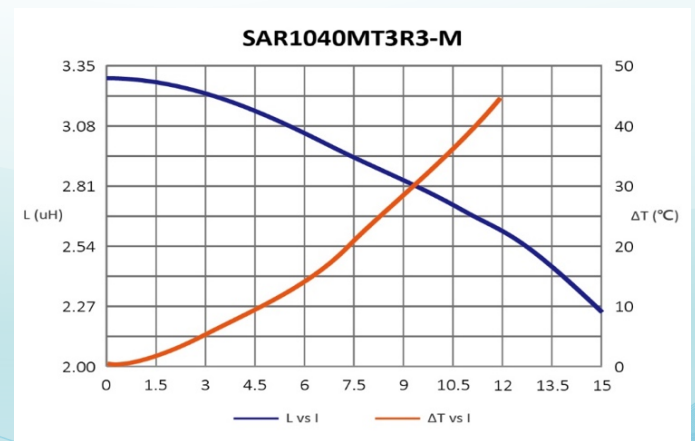
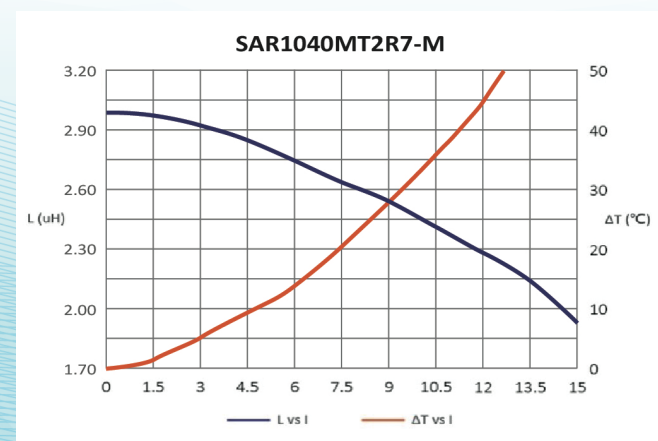
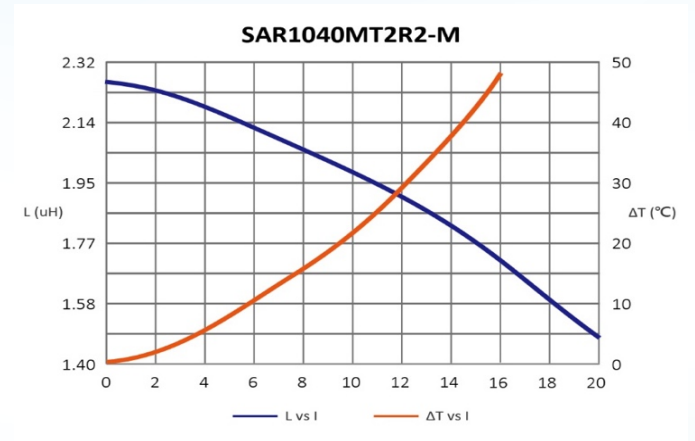
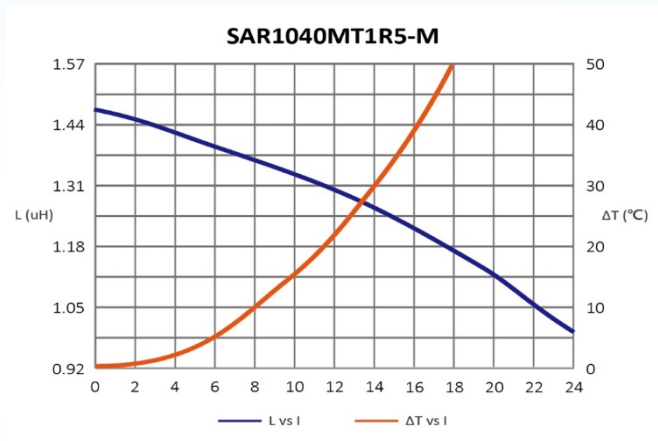
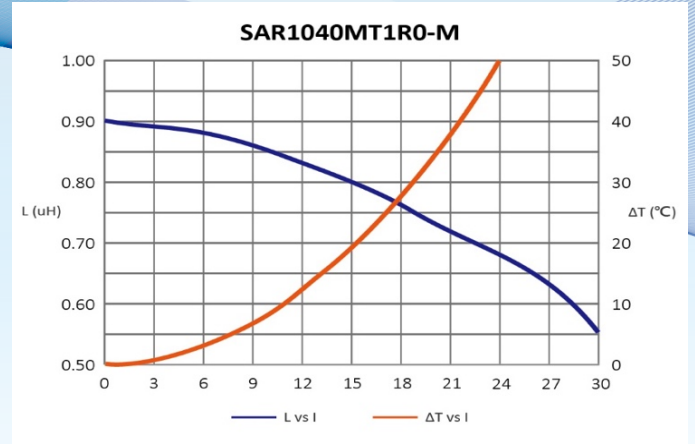
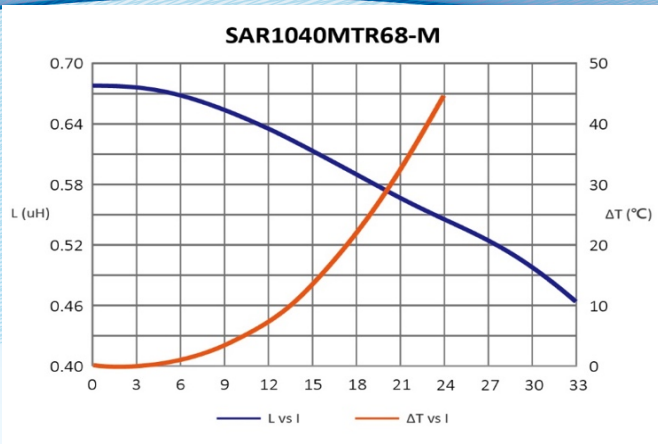
- All test data is referred to 25°C ambient.
- Isat : DC current (A) that will cause Lo to drop approximately 30% (Typical)
- Irms : DC current (A) that will cause an approximate ΔT of 40°C (Typical)
- Operating temperature range : -40°C to +125°C

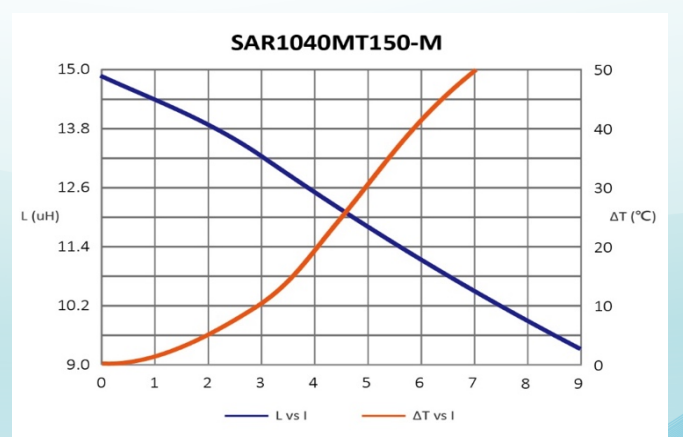
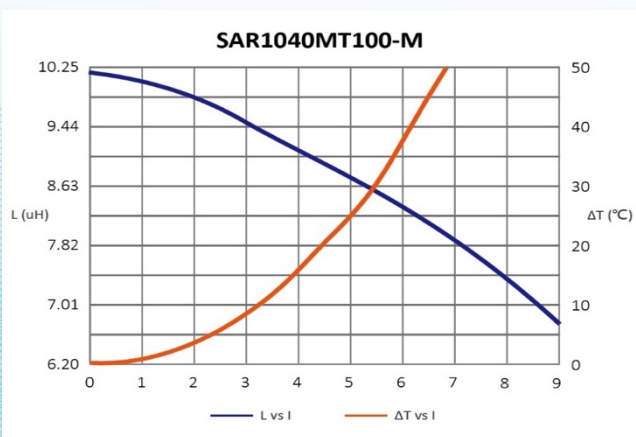
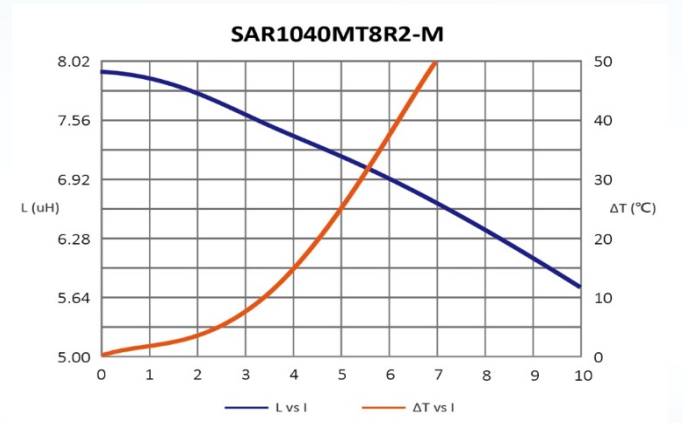
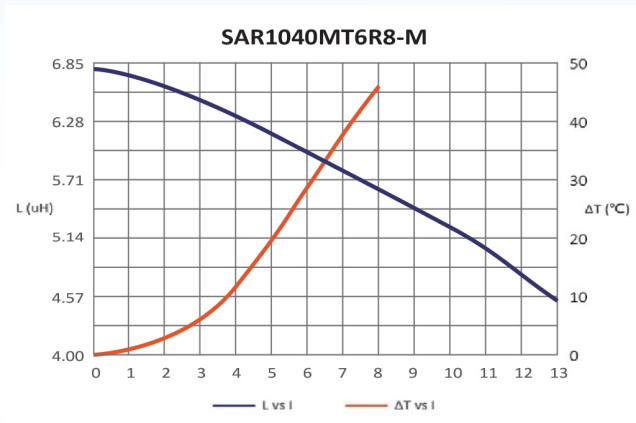
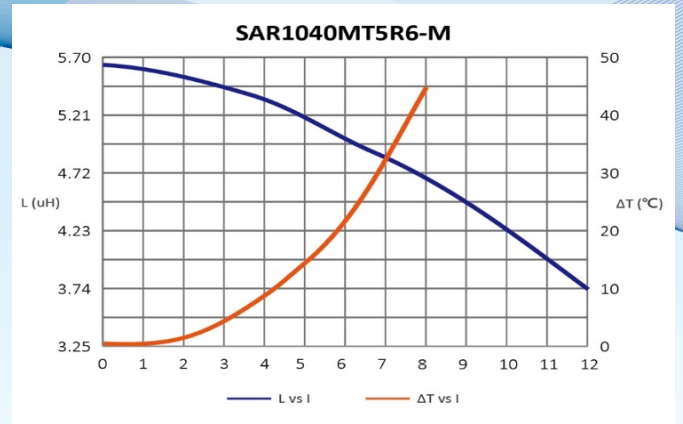
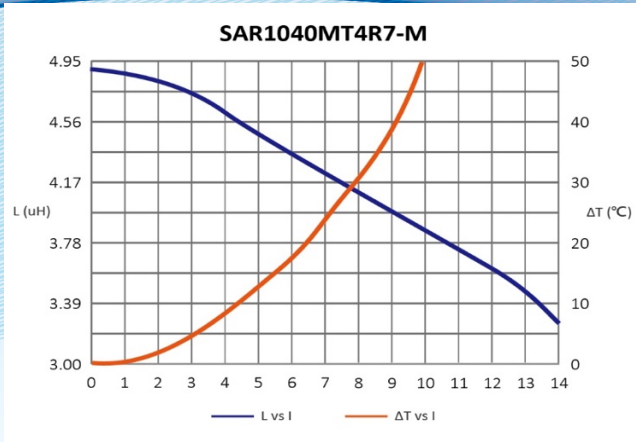
註 : Absolute maximum voltage 30VDC

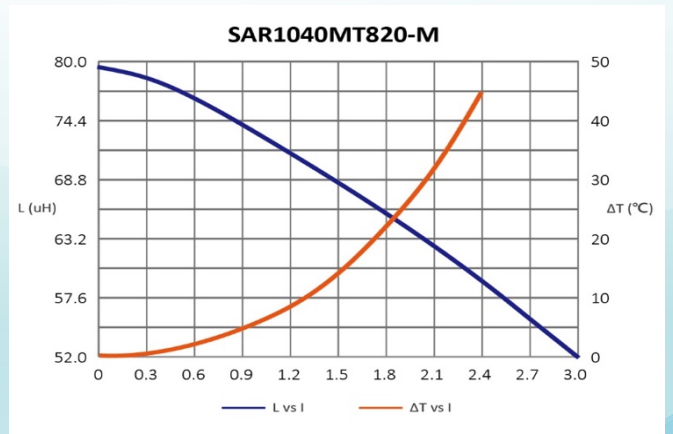
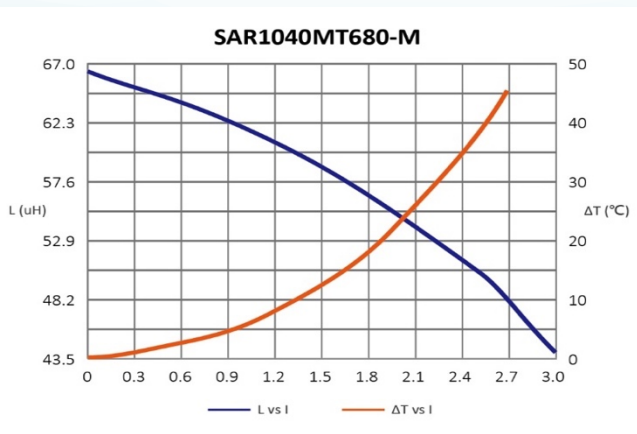
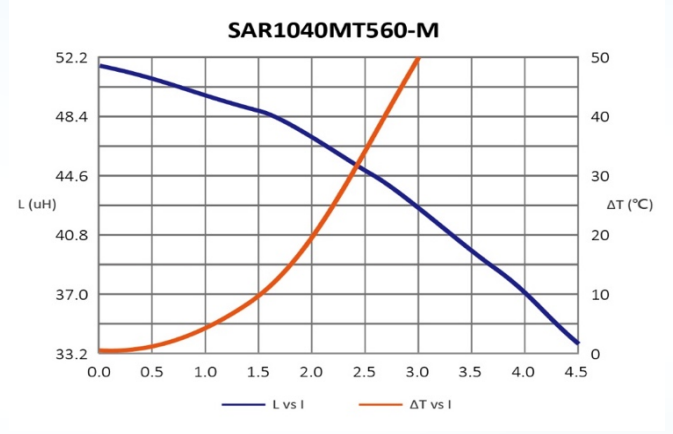
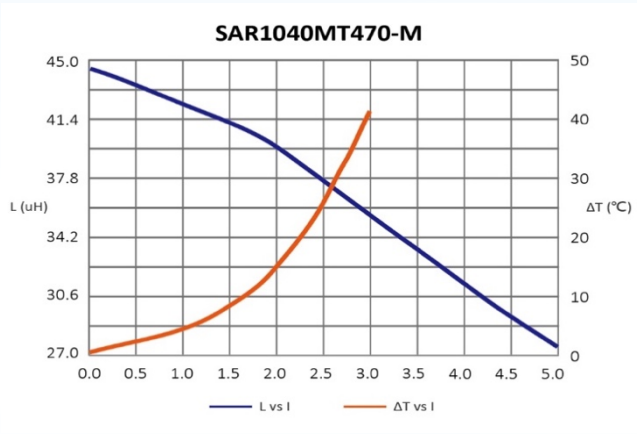
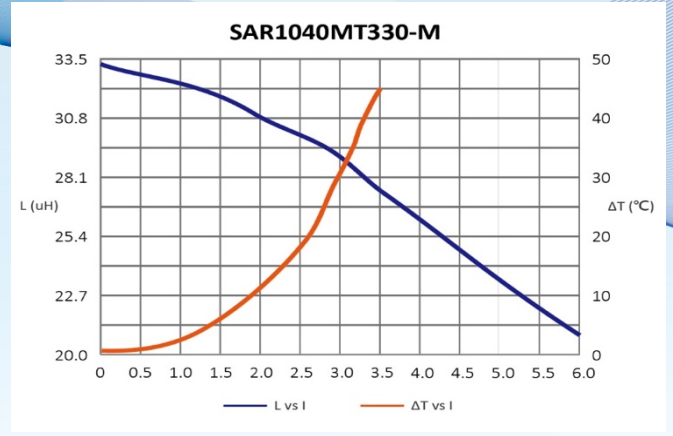
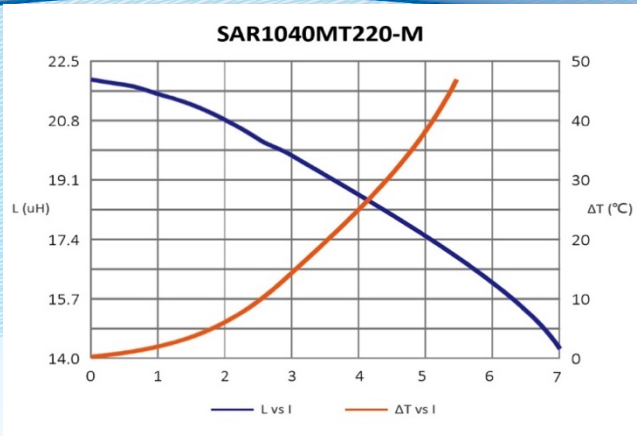
## Test equipment

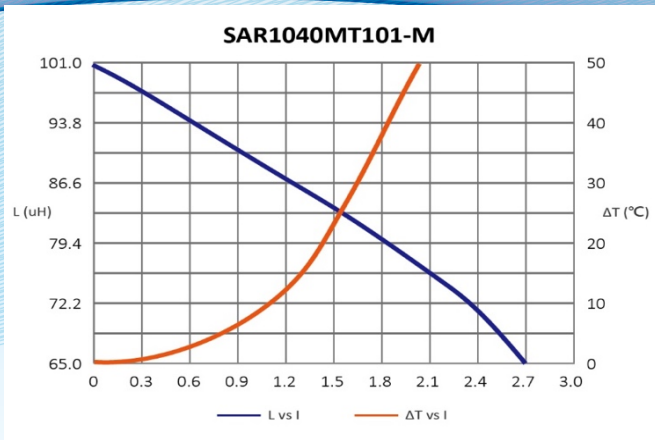
- Test Frequency : 100KHz ,1.0 Vrms.
- L : HP 4284A
- DCR : TH2512B











**TAPE AND REEL SPECIFICATIONS**

