

SMD Power Inductor

TMIM-HL-Series(B)

1. Features

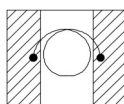
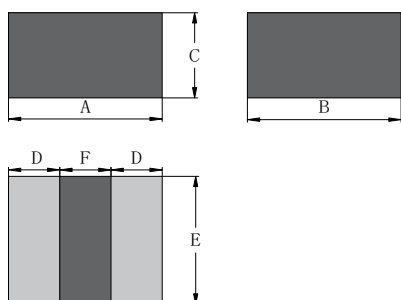
1. Low loss realized with low DCR.
2. High performance realized by metal dust core.
3. Ultra low buzz noise, due to composite construction.
4. 100% Lead(Pb)-Free & Halogen-Free and RoHS compliant.
5. Operating temperature: -40~+125°C (Including self - temperature rise)



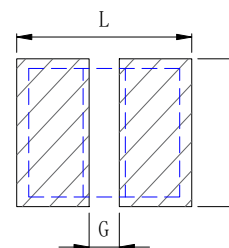
2. Applications

Commercial applications

3. Dimension



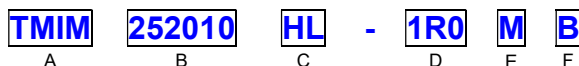
Recommend PC Board Pattern



Series	A	B	C	D	E	F	L	G	H
TMIM160808HL	1.6±0.3	0.8±0.3	0.7±0.1	0.55±0.3	0.8±0.3	0.5Min	1.9	0.4	1.1
TMIM201208HL	2.0±0.3	1.2±0.3	0.7±0.1	0.7±0.3	1.2±0.3	0.6Min	2.5	0.5	1.5
TMIM201210HL	2.0±0.3	1.2±0.3	0.8±0.2	0.7±0.3	1.2±0.3	0.6Min	2.5	0.5	1.5
TMIM201608HL	2.0±0.3	1.6±0.3	0.7±0.1	0.7±0.3	1.6±0.3	0.6Min	2.5	0.5	1.9
TMIM201610HL	2.0±0.3	1.6±0.3	0.8±0.2	0.7±0.3	1.6±0.3	0.6Min	2.5	0.5	1.9
TMIM252010HL	2.5±0.3	2.0±0.3	0.8±0.2	0.9±0.3	2.0±0.3	0.7Min	2.9	0.5	2.3
TMIM252012HL	2.5±0.3	2.0±0.3	1.0±0.2	0.9±0.3	2.0±0.3	0.7Min	2.9	0.5	2.3
TMIM322510HL	3.2±0.3	2.5±0.3	0.8±0.2	1.1±0.3	2.5±0.3	1.0Min	3.7	0.7	2.8
TMIM322512HL	3.2±0.3	2.5±0.3	1.0±0.2	1.1±0.3	2.5±0.3	1.0Min	3.7	0.7	2.8

Unit : mm

4. Part Numbering



- A: Series
 - B: Dimension
 - C: Type
 - D: Inductance
 - E: Inductance Tolerance
 - F: Black
- AxBxC
 - HL: High current, low dcr
 - 1R0=1.00uH
 - M=±20%

5. Specification

Tai-Tech Part Number	Inductance (μH) $\pm 20\%$ @ 0 A DC	Irms (A)		Isat (A)		DCR($\text{m}\Omega$)	
		Typ	Max	Typ	Max	Typ	Max
TMIM160808HL-R22MB	0.22	3.4	3.0	5.5	5.0	33	40
TMIM160808HL-R24MB	0.24	3.3	2.9	5.3	4.8	34	41
TMIM160808HL-R47MB	0.47	2.8	2.5	4.7	4.2	80	100
TMIM160808HL-R56MB	0.56	2.4	2.2	4.1	3.6	85	110
TMIM160808HL-R68MB	0.68	2.2	2.0	3.3	3.0	115	138
TMIM160808HL-1R0MB	1.00	2.1	1.8	3.0	2.6	180	200
TMIM160808HL-1R5MB	1.50	1.7	1.4	2.4	2.0	240	285

Tai-Tech Part Number	Inductance (μH) $\pm 20\%$ @ 0 A DC	Irms (A)		Isat (A)		DCR($\text{m}\Omega$)	
		Typ	Max	Typ	Max	Typ	Max
TMIM201208HL-R11MB	0.11	7.0	6.5	9.5	9.0	10	12
TMIM201208HL-R15MB	0.15	6.8	6.3	7.5	7.0	11	13
TMIM201208HL-R24MB	0.24	6.5	5.9	6.5	6.0	18	23
TMIM201208HL-R33MB	0.33	4.3	4.0	5.2	4.8	33	45
TMIM201208HL-R47MB	0.47	3.1	2.7	5.0	4.6	34	50
TMIM201208HL-R68MB	0.68	3.7	3.3	4.2	3.7	50	60
TMIM201208HL-1R0MB	1.00	2.8	2.4	3.2	2.8	55	70
TMIM201208HL-1R5MB	1.50	2.2	1.9	3.0	2.5	118	135
TMIM201208HL-2R2MB	2.20	1.9	1.5	2.5	2.1	160	185

Tai-Tech Part Number	Inductance (μH) $\pm 20\%$ @ 0 A DC	Irms (A)		Isat (A)		DCR($\text{m}\Omega$)	
		Typ	Max	Typ	Max	Typ	Max
TMIM201210HL-R10MB	0.10	7.5	7.0	8.5	8.0	8	13
TMIM201210HL-R24MB	0.24	7.0	6.4	7.2	6.7	17	23
TMIM201210HL-R33MB	0.33	5.5	5.0	6.5	6.0	24	32
TMIM201210HL-R47MB	0.47	4.7	4.3	5.5	5.0	29	36
TMIM201210HL-1R0MB	1.00	3.9	3.5	4.0	3.5	55	63
TMIM201210HL-1R5MB	1.50	3.1	2.6	3.2	2.7	76	85
TMIM201210HL-2R2MB	2.20	2.0	1.7	2.7	2.4	135	150

Tai-Tech Part Number	Inductance (μH) $\pm 20\%$ @ 0 A DC	Irms (A)		Isat (A)		DCR($\text{m}\Omega$)	
		Typ	Max	Typ	Max	Typ	Max
TMIM201608HL-R24MB	0.24	6.5	5.8	6.0	5.5	14	20
TMIM201608HL-R33MB	0.33	5.5	4.8	5.8	5.3	18	24
TMIM201608HL-R47MB	0.47	4.9	4.5	5.5	5.0	27	31
TMIM201608HL-R68MB	0.68	3.8	3.6	5.1	4.6	39	44
TMIM201608HL-1R0MB	1.00	3.1	2.9	3.6	3.3	53	60
TMIM201608HL-1R5MB	1.50	2.9	2.7	3.3	3.0	73	85
TMIM201608HL-2R2MB	2.20	2.2	2.0	2.7	2.4	123	140

Tai-Tech Part Number	Inductance (uH) $\pm 20\%$ @ 0 A DC	Irms (A)		Isat (A)		DCR(m Ω)	
		Typ	Max	Typ	Max	Typ	Max
TMIM201610HL-R10MB	0.10	8.5	8.0	9.0	8.4	8	14
TMIM201610HL-R15MB	0.15	7.6	7.0	8.7	8.0	10	16
TMIM201610HL-R24MB	0.24	6.8	6.2	7.3	7.0	15	18
TMIM201610HL-R33MB	0.33	6.5	6.0	7.0	6.5	17	20
TMIM201610HL-R47MB	0.47	6.0	5.5	6.3	5.5	19	22
TMIM201610HL-R68MB	0.68	5.0	4.5	5.2	4.7	24	31
TMIM201610HL-1R0MB	1.00	4.0	3.7	4.8	4.2	38	46
TMIM201610HL-1R5MB	1.50	3.4	3.0	3.5	3.1	80	96
TMIM201610HL-2R2MB	2.20	2.8	2.5	3.0	2.8	120	138
TMIM201610HL-3R3MB	3.30	1.7	1.5	2.3	2.0	140	170
TMIM201610HL-4R7MB	4.70	1.6	1.4	2.0	1.8	190	220

Tai-Tech Part Number	Inductance (uH) $\pm 20\%$ @ 0 A DC	Irms (A)		Isat (A)		DCR(m Ω)	
		Typ	Max	Typ	Max	Typ	Max
TMIM252010HL-R22MB	0.22	6.8	6.5	8.6	7.9	12	17
TMIM252010HL-R24MB	0.24	6.8	6.4	8.5	8.0	12	16
TMIM252010HL-R33MB	0.33	6.6	6.2	7.6	7.2	13	17
TMIM252010HL-R47MB	0.47	6.1	5.6	6.9	6.5	15	22
TMIM252010HL-R68MB	0.68	5.6	5.0	5.9	5.5	23	27
TMIM252010HL-1R0MB	1.00	4.5	4.1	5.3	4.8	24	28
TMIM252010HL-1R5MB	1.50	4.0	3.6	4.3	3.9	45	55
TMIM252010HL-2R2MB	2.20	2.9	2.6	3.4	3.0	57	66
TMIM252010HL-3R3MB	3.30	2.5	2.2	2.8	2.5	86	100
TMIM252010HL-4R7MB	4.70	2.0	1.6	2.6	2.0	180	216
TMIM252010HL-100MB	10.0	1.2	1.1	1.6	1.4	490	520

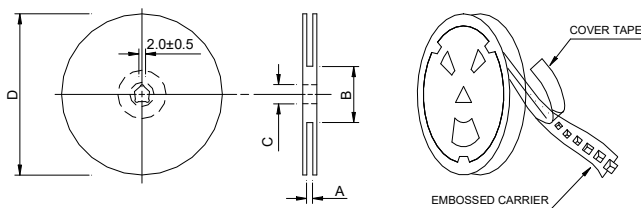
Tai-Tech Part Number	Inductance (uH) $\pm 20\%$ @ 0 A DC	Irms (A)		Isat (A)		DCR(m Ω)	
		Typ	Max	Typ	Max	Typ	Max
TMIM252012HL-R10MB	0.10	12.0	8.0	12.0	10.0	4	7
TMIM252012HL-R22MB	0.22	8.2	7.6	9.6	9.0	9	10.8
TMIM252012HL-R24MB	0.24	7.9	7.2	9.2	8.6	9	10.8
TMIM252012HL-R33MB	0.33	7.0	6.4	8.0	7.5	10	12
TMIM252012HL-R47MB	0.47	6.7	6.0	7.4	6.8	16	20
TMIM252012HL-R68MB	0.68	6.1	5.5	6.5	6.0	19	23
TMIM252012HL-1R0MB	1.00	5.7	5.2	5.8	5.3	31	37
TMIM252012HL-1R5MB	1.50	4.2	3.6	4.8	4.2	42	51
TMIM252012HL-2R2MB	2.20	3.7	3.3	4.0	3.3	52	60
TMIM252012HL-3R3MB	3.30	2.8	2.5	3.0	2.7	80	97
TMIM252012HL-4R7MB	4.70	2.3	2.0	2.8	2.2	170	204
TMIM252012HL-100MB	10.0	1.2	1.05	1.6	1.45	330	400

Tai-Tech Part Number	Inductance (uH) $\pm 20\%$ @ 0 A DC	I _{rms} (A)		I _{sat} (A)		DCR(mΩ)	
		Typ	Max	Typ	Max	Typ	Max
TMIM322510HL-R33MB	0.33	8.3	7.8	8.3	7.8	11	15
TMIM322510HL-R47MB	0.47	6.4	5.9	8.3	7.6	17	22
TMIM322510HL-R68MB	0.68	6.2	5.7	7.5	7.0	22	28
TMIM322510HL-1R0MB	1.00	5.4	4.9	6.0	5.3	25	30
TMIM322510HL-1R5MB	1.50	4.0	3.6	5.0	4.4	34	42
TMIM322510HL-2R2MB	2.20	3.7	3.4	4.0	3.5	55	66
TMIM322510HL-3R3MB	3.30	2.7	2.3	3.7	3.3	105	120
TMIM322510HL-4R7MB	4.70	2.3	1.9	2.8	2.5	125	140
TMIM322510HL-6R8MB	6.80	1.9	1.6	2.4	2.0	290	320
TMIM322510HL-100MB	10.0	2.2	1.8	2.2	1.8	325	365

Tai-Tech Part Number	Inductance (uH) $\pm 20\%$ @ 0 A DC	I _{rms} (A)		I _{sat} (A)		DCR(mΩ)	
		Typ	Max	Typ	Max	Typ	Max
TMIM322512HL-R22MB	0.22	9.5	9.0	9.3	8.7	7.4	8.5
TMIM322512HL-R33MB	0.33	8.5	8.0	9.2	8.6	9	12
TMIM322512HL-R47MB	0.47	7.1	6.6	8.3	7.5	17	19
TMIM322512HL-R68MB	0.68	6.3	5.8	7.4	6.9	19	24
TMIM322512HL-1R0MB	1.00	5.7	5.2	6.6	5.8	26	30
TMIM322512HL-1R5MB	1.50	4.6	4.0	5.3	5.0	40	50
TMIM322512HL-2R2MB	2.20	4.2	3.7	4.9	4.4	58	70
TMIM322512HL-3R3MB	3.30	3.2	2.8	3.5	3.1	75	95
TMIM322512HL-4R7MB	4.70	2.5	2.0	2.9	2.5	115	135
TMIM322512HL-6R8MB	6.80	2.1	1.9	2.8	2.4	177	210
TMIM322512HL-100MB	10.0	2.2	1.8	2.3	1.9	210	230

6. Packaging Information

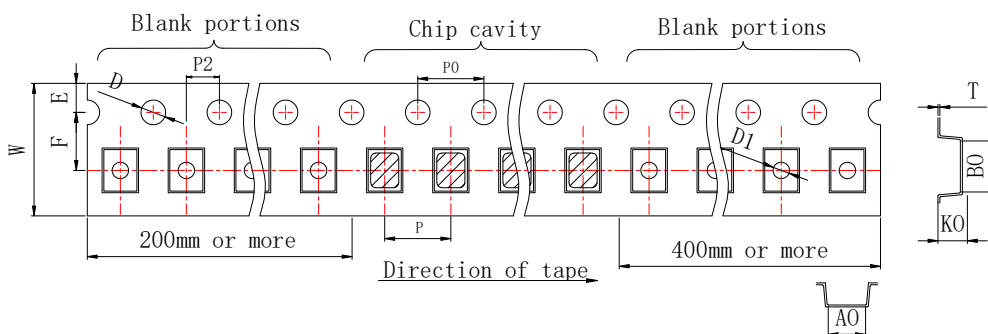
6-1. Reel Dimension



Type	A(mm)	B(mm)	C(mm)	D(mm)
7"x8mm	8.4+1.5/-0.0	60±1.0	13+0.5/-0.2	178±2.0

6-2. Tape Dimension

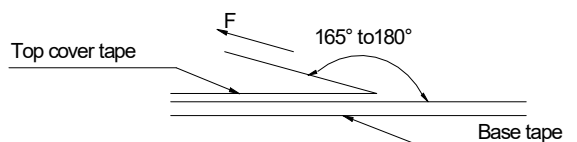
Material of taping is plastic



Series	B0	A0	K0	W	P	P0	P2	E	F	T	D	D1	Packaging Quantity
TMIM160808	1.9±0.1	1.1±0.1	1.0±0.1	8.0±0.1	4.0±0.1	4.0±0.1	2.0±0.1	1.75±0.1	3.5±0.1	0.25±0.05	1.5+0.1/-0.0	1.0±0.1	3000
TMIM201208	2.3±0.1	1.5±0.1	1.0±0.1	8.0±0.1	4.0±0.1	4.0±0.1	2.0±0.1	1.75±0.1	3.5±0.1	0.25±0.05	1.5+0.1/-0.0	1.0±0.1	3000
TMIM201210	2.3±0.1	1.5±0.1	1.2±0.1	8.0±0.1	4.0±0.1	4.0±0.1	2.0±0.1	1.75±0.1	3.5±0.1	0.25±0.05	1.5+0.1/-0.0	1.0±0.1	3000
TMIM201608	2.3±0.1	1.9±0.1	1.0±0.1	8.0±0.1	4.0±0.1	4.0±0.1	2.0±0.1	1.75±0.1	3.5±0.1	0.25±0.05	1.5+0.1/-0.0	1.0±0.1	3000
TMIM201610	2.3±0.1	1.9±0.1	1.2±0.1	8.0±0.1	4.0±0.1	4.0±0.1	2.0±0.1	1.75±0.1	3.5±0.1	0.25±0.05	1.5+0.1/-0.0	1.0±0.1	3000
TMIM252010	2.9±0.1	2.4±0.1	1.2±0.1	8.0±0.1	4.0±0.1	4.0±0.1	2.0±0.1	1.75±0.1	3.5±0.1	0.25±0.05	1.5+0.1/-0.0	1.0±0.1	3000
TMIM252012	2.9±0.1	2.4±0.1	1.4±0.1	8.0±0.1	4.0±0.1	4.0±0.1	2.0±0.1	1.75±0.1	3.5±0.1	0.25±0.05	1.5+0.1/-0.0	1.0±0.1	3000
TMIM322510	3.6±0.1	2.9±0.1	1.4±0.1	8.0±0.1	4.0±0.1	4.0±0.1	2.0±0.1	1.75±0.1	3.5±0.1	0.22±0.05	1.5+0.1/-0.0	1.5+0.1/-0.0	3000
TMIM322512	3.6±0.1	2.9±0.1	1.4±0.1	8.0±0.1	4.0±0.1	4.0±0.1	2.0±0.1	1.75±0.1	3.5±0.1	0.25±0.05	1.5+0.1/-0.0	1.0±0.1	3000

Unit: mm

6-3. Tearing Off Force

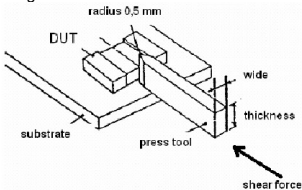


The force for tearing off cover tape is 10 to 100 grams in the arrow direction under the following conditions (referenced ANSI/EIA-481-D-2008 of 4.11 standard).

Tearing Speed mm	Room Temp. (°C)	Room Humidity (%)	Room atm (hPa)
300±10	5~35	45~85	860~1060

7. Reliability and Test Condition

Item	Performance	Test Condition
Operating temperature	-40~+125°C (Including self - temperature rise)	NA
Storage temperature	1. -10~+40°C, 50~60%RH (Product with taping) 2. -40~+125°C (on board)	NA
Electrical Performance Test		
Inductance	Refer to standard electrical characteristics list.	HP4284A,CH11025,CH3302,CH1320,CH1320S LCR Meter.
DCR		CH16502,Agilent33420A Micro-Ohm Meter.
Saturation Current (Isat)	Approximately $\Delta L30\%$.	Saturation DC Current (Isat) will cause L0 to drop $\Delta L(\%)$
Heat Rated Current (Irms)	Approximately $\Delta T40^\circ C$	Heat Rated Current (Irms) will cause the coil temperature rise $\Delta T(^\circ C)$. 1. Applied the allowed DC current 2. Temperature measured by digital surface thermometer
Reliability Test		
Life Test	Appearance : No damage. Inductance : within $\pm 10\%$ of initial value DCR : within $\pm 15\%$ of initial value and shall not exceed the specification value	Preconditioning: Run through reflow for 3 times. (IPC/JEDEC J-STD-020F Classification Reflow Profiles) Temperature : 125 $\pm 2^\circ C$ Applied current : rated current Duration : 1000 ± 12 hrs Measured at room temperature after placing for 24 hrs..
Load Humidity		Preconditioning: Run through reflow for 3 times. (IPC/JEDEC J-STD-020F Classification Reflow Profiles) Humidity : 85 $\pm 3\%$ R.H. Temperature : 85 $\pm 2^\circ C$ Duration : 1000hrs Min. Bead: with 100% rated current. Inductance: with 10% rated current. Measured at room temperature after placing for 24 hrs.
Moisture Resistance		Preconditioning: Run through reflow for 3 times. (IPC/JEDEC J-STD-020F Classification Reflow Profiles) 1. Baked at 50 $^\circ C$ for 25hrs, measured at room temperature after placing for 4 hrs. 2. Raise temperature to 65 $\pm 2^\circ C$ 90-100%RH in 2.5hrs, and keep 3 hours, cool down to 25 $^\circ C$ in 2.5hrs. 3. Raise temperature to 65 $\pm 2^\circ C$ 90-100%RH in 2.5hrs, and keep 3 hours, cool down to 25 $^\circ C$ in 2.5hrs,keep at 25 $^\circ C$ for 2 hrs then keep at -10 $^\circ C$ for 3 hrs 4. Keep at 25 $^\circ C$ 80-100%RH for 15min and vibrate at the frequency of 10 to 55 Hz to 10 Hz, measure at room temperature after placing for 1~2 hrs.
Thermal shock		Preconditioning: Run through reflow for 3 times. (IPC/JEDEC J-STD-020F Classification Reflow Profiles) Condition for 1 cycle Step1 : -40 $\pm 2^\circ C$ 30 ± 5 min Step2 : 125 $\pm 2^\circ C$ ≤ 0.5 min Step3 : 125 $\pm 2^\circ C$ 30 ± 5 min Number of cycles : 500 Measured at room temperature after placing for 24 hrs.
Vibration		Preconditioning: Run through reflow for 3 times. (IPC/JEDEC J-STD-020F Classification Reflow Profiles) Oscillation Frequency: 10Hz~2KHz~10Hz for 20 minutes Equipment : Vibration checker Total Amplitude:10g Testing Time : 12 hours(20 minutes, 12 cycles each of 3 orientations)

Item	Performance	Test Condition															
Bending	Appearance : No damage. Inductance : within±10% of initial value DCR : within ±15% of initial value and shall not exceed the specification value	Shall be mounted on a FR4 substrate of the following dimensions: >=0805 inch(2012mm):40x100x1.2mm <0805 inch(2012mm):40x100x0.8mm Bending depth: >=0805 inch(2012mm):1.2mm <0805 inch(2012mm):0.8mm duration of 10 sec.															
Shock		Preconditioning: Run through reflow for 3 times. (IPC/JEDEC J-STD-020F Classification Reflow Profiles) Test condition: <table border="1" data-bbox="1007 461 1418 595"> <thead> <tr> <th>Type</th> <th>Peak value (g's)</th> <th>Normal duration (D) (ms)</th> <th>Wave form</th> <th>Velocity change (Vi)ft/sec</th> </tr> </thead> <tbody> <tr> <td>SMD</td> <td>50</td> <td>11</td> <td>Half-sine</td> <td>11.3</td> </tr> <tr> <td>Lead</td> <td>50</td> <td>11</td> <td>Half-sine</td> <td>11.3</td> </tr> </tbody> </table> 3 shocks in each direction along 3 perpendicular axes (18 shocks).	Type	Peak value (g's)	Normal duration (D) (ms)	Wave form	Velocity change (Vi)ft/sec	SMD	50	11	Half-sine	11.3	Lead	50	11	Half-sine	11.3
Type	Peak value (g's)	Normal duration (D) (ms)	Wave form	Velocity change (Vi)ft/sec													
SMD	50	11	Half-sine	11.3													
Lead	50	11	Half-sine	11.3													
Solder ability	More than 95% of the terminal electrode should be covered with solder	a. Method B, 4 hrs @155°C dry heat @235°C±5°C Test time:5 +0/-0.5 seconds. b. Method D category 3. (steam aging 8hours ± 15 min)@ 260°C±5°C Test time: 30 +0/-0.5 seconds.															
Resistance to Soldering Heat		Depth: completely cover the termination <table border="1" data-bbox="1002 837 1434 931"> <thead> <tr> <th>Temperature(°C)</th> <th>Time(s)</th> <th>Temperature ramp/immersion and emersion rate</th> <th>Number of heat cycles</th> </tr> </thead> <tbody> <tr> <td>260 ±5 (solder temp)</td> <td>10 ±1</td> <td>25mm/s ±6 mm/s</td> <td>1</td> </tr> </tbody> </table>	Temperature(°C)	Time(s)	Temperature ramp/immersion and emersion rate	Number of heat cycles	260 ±5 (solder temp)	10 ±1	25mm/s ±6 mm/s	1							
Temperature(°C)	Time(s)	Temperature ramp/immersion and emersion rate	Number of heat cycles														
260 ±5 (solder temp)	10 ±1	25mm/s ±6 mm/s	1														
Terminal Strength	Appearance : No damage. Inductance : within±10% of initial value DCR : within ±15% of initial value and shall not exceed the specification value	Preconditioning: Run through reflow for 3 times. (IPC/JEDEC J-STD-020F Classification Reflow Profiles) With the component mounted on a PCB with the device to be tested, apply a force (>0805inch(2012mm):1kg , <=0805 inch(2012mm):0.5kg)to the side of a device being tested. This force shall be applied for 60 +1 seconds. Also the force shall be applied gradually as not to apply a shock to the component being tested. 															

Note : When there are questions concerning measurement result : measurement shall be made after 48 ± 2 hours of recovery under the standard condition.

8. Soldering Specifications

(1) Soldering

Mildly activated rosin fluxes are preferred. TAI-TECH terminations are suitable for re-flow soldering systems. If hand soldering cannot be avoided, the preferred technique is the utilization of hot air soldering tools.

(2) Soldering Reflow:

Recommended temperature profiles for lead free re-flow soldering in Figure 1. Table 1.1&1.2 (J-STD-020F)

(3) Soldering Iron:

Products attachment with a soldering iron is discouraged due to the inherent process control limitations. In the event that a soldering iron must be employed the following precautions are recommended.(Fig. 2)

- Preheat circuit and products to 150°C
- Never contact the ceramic with the iron tip
- Use a 20 watt soldering iron with tip diameter of 1.0mm
- 280°C tip temperature (max)
- 1.0mm tip diameter (max)
- Limit soldering time to 3sec.

Fig.1 Soldering Reflow

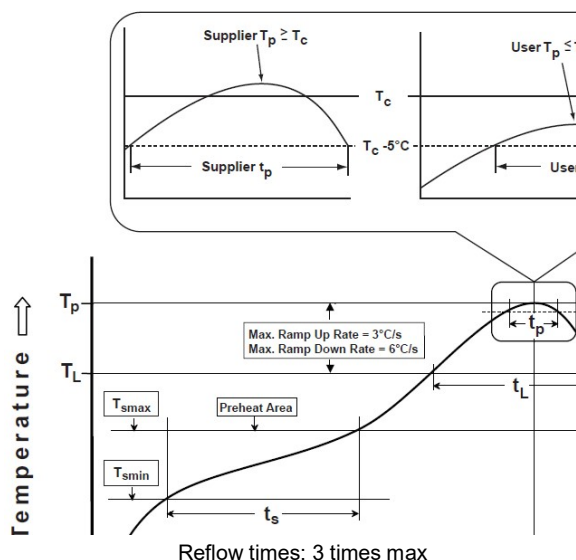


Fig.2 Iron soldering temperature profiles

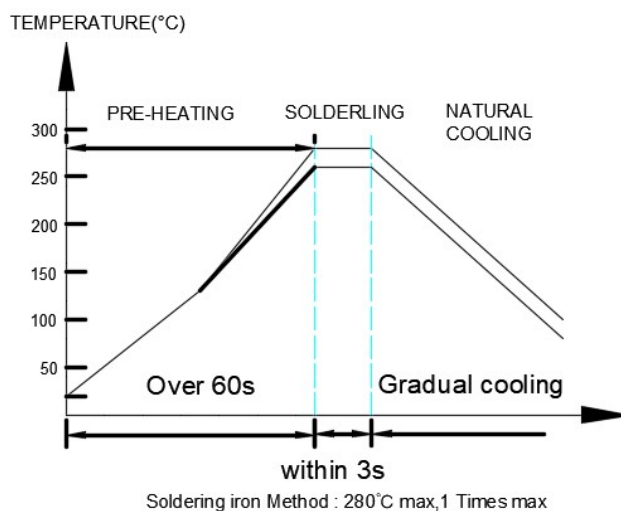


Table (1.1): Reflow Profiles

Profile Type:	Pb-Free Assembly
Preheat	
-Temperature Min(T_{smin})	150°C
-Temperature Max(T_{smax})	200°C
-Time(t_s)from(T_{smin} to T_{smax})	60-120seconds
Ramp-up rate(T_L to T_p)	3°C/second max.
Liquidus temperature(T_L)	217°C
Time(t_L)maintained above T_L	60-150 seconds
Classification temperature(T_c)	See Table (1.2)
Time(t_p) at $T_c - 5^\circ\text{C}$ (T_p should be equal to or less than T_c .)	< 30 seconds
Ramp-down rate(T_p to T_L)	6°C /second max.
Time 25°C to peak temperature	8 minutes max.

T_p : maximum peak package body temperature, T_c : the classification temperature.

For user (customer) T_p should be equal to or less than T_c .

* Tolerance for peak profile temperature (T_p) is defined as a supplier minimum and a user maximum.

Table (1.2) Package Thickness/Volume and Classification Temperature (T_c)

	Package Thickness	Volume mm ³ <350	Volume mm ³ 350-2000	Volume mm ³ >2000
PB-Free Assembly	<1.6mm	260°C	260°C	260°C
	1.6-2.5mm	260°C	250°C	245°C
	≥2.5mm	250°C	245°C	245°C

Reflow is referred to standard IPC/JEDEC J-STD-020F ◦

9. Notes

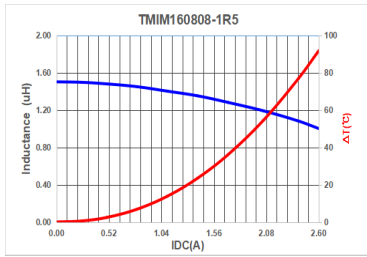
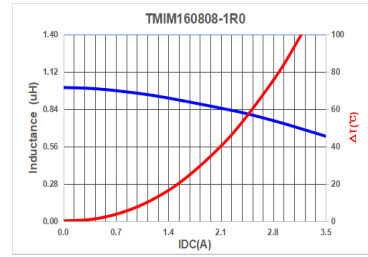
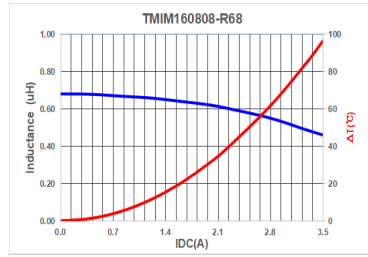
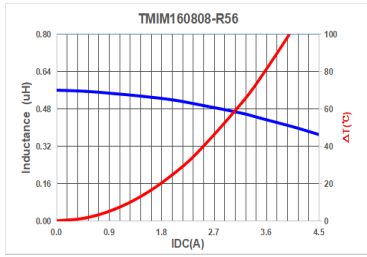
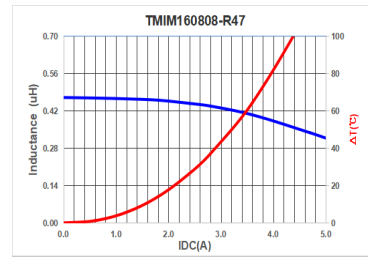
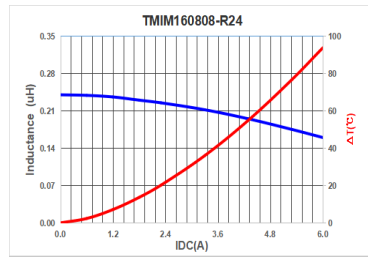
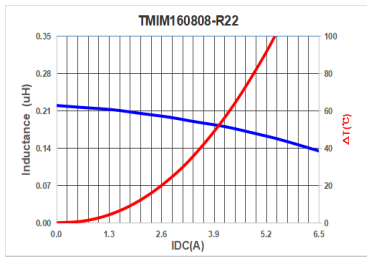
- (1) When there are questions concerning measurement result : measurement shall be made after 48 ± 2 hours of recovery under the standard condition.
- (2) This power choke coil itself does not have any protective function in abnormal condition such as overload, short-circuit and open-circuit conditions, etc. Therefore, it shall be confirmed as the end product that there is no risk of smoking, fire, dielectric withstand voltage, insulation resistance, etc. in abnormal conditions to provide protective devices and/or protection circuit in the end product.
- (3) When this power choke coil was used in a similar or new product to the original one, sometimes it might not be able to satisfy the specifications due to different condition of use.
- (4) Dielectric withstanding test with higher voltage than specific value will damage insulating material and shorten its life.
- (5) This power choke coil must not be used in wet condition by water, coffee or any liquid because insulation strength becomes very low in this condition.
- (6) Please consult our company to confirm the reliability of the process required to wash or use or exposure to a chemical solvent used in this product. PCB washing tested to MIL-STD-202 Method, and dry it off immediately.
- (7) The rated current as listed is either the saturation current or the heating current depending on which value is lower.
- (8) If this power choke is dipped in the cleaning agent, such as toluene, xylene, ketone, and ether system, there is a possibility that the performance decreases greatly, and marking disappears.
- (9) The high power ultrasonic washing may damage the choke body.
- (10) Before use, the user should determine whether this product is suitable for their own design, our company only guarantees that the product meets the requirements of this specification.

Application Notice

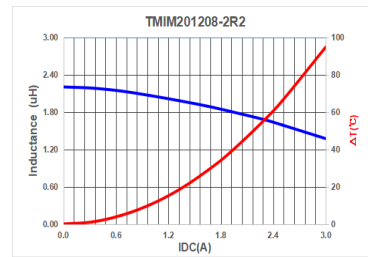
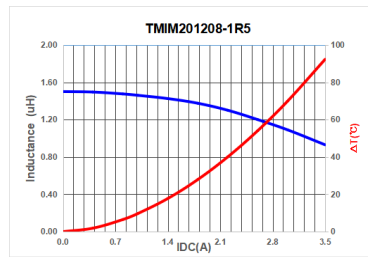
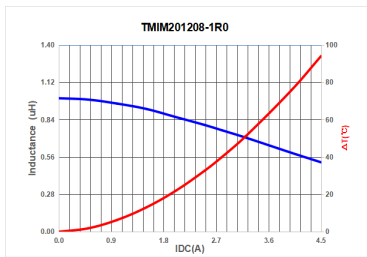
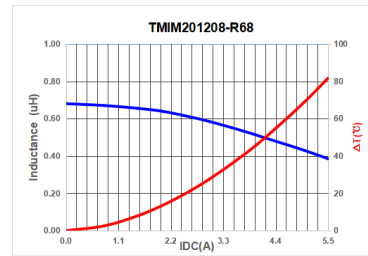
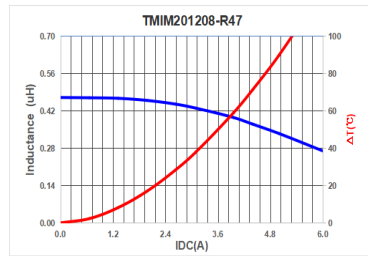
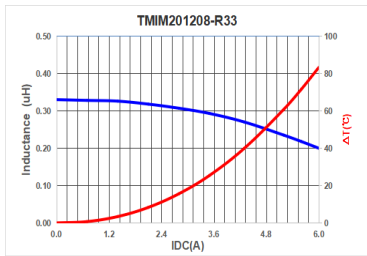
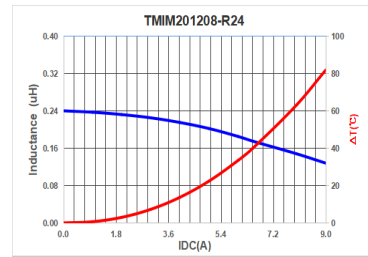
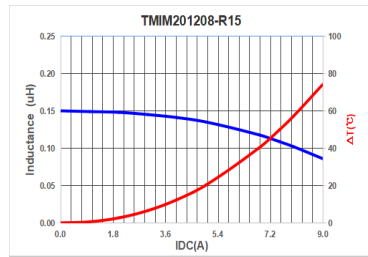
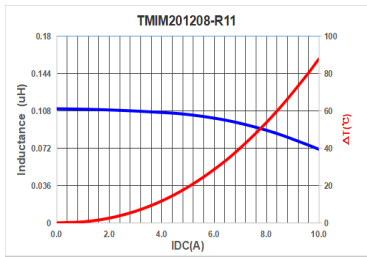
- Storage Conditions (component level)
To maintain the solderability of terminal electrodes:
 1. TAI-TECH products meet IPC/JEDEC J-STD-020F standard-MSL, level 1.
 2. Temperature and humidity conditions: Less than 40°C and 60% RH.
 3. Recommended products should be used within 12 months from the time of delivery.
 4. The packaging material should be kept where no chlorine or sulfur exists in the air.
- Transportation
 1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
 2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
 3. Bulk handling should ensure that abrasion and mechanical shock are minimized.

10. Typical Performance Curves

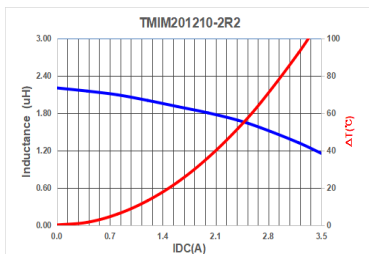
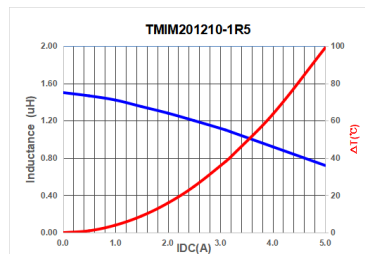
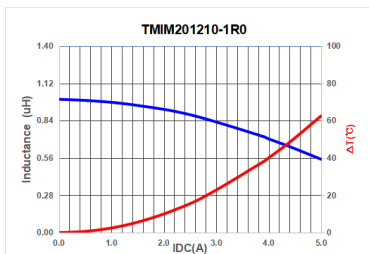
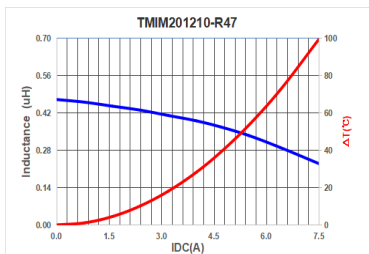
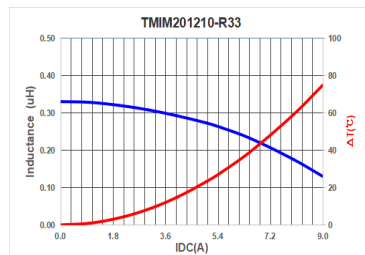
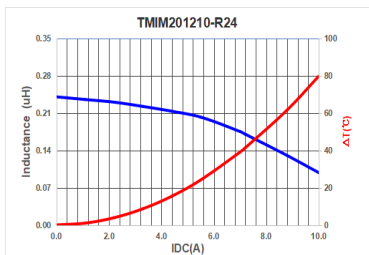
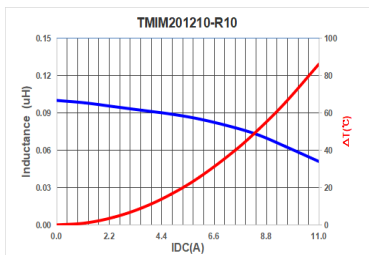
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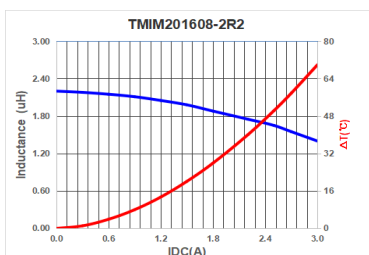
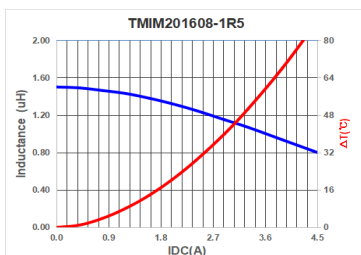
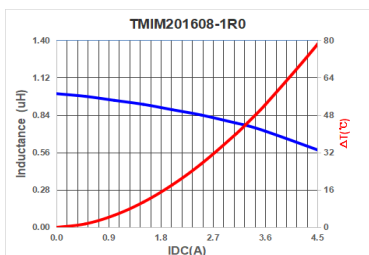
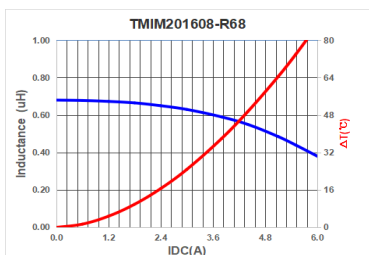
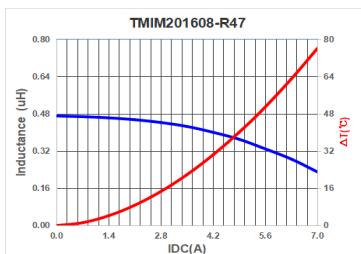
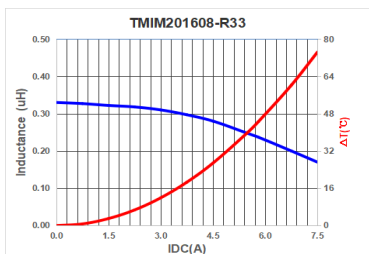
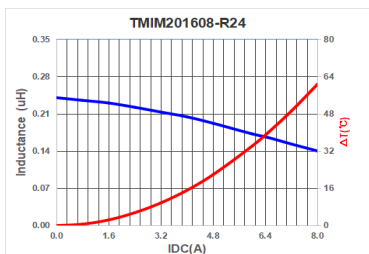
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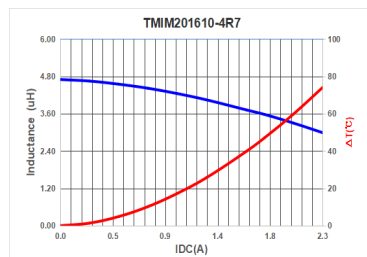
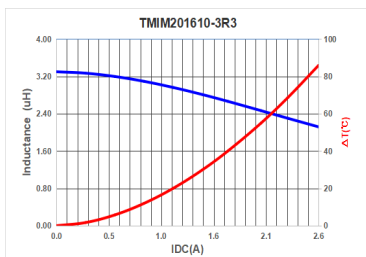
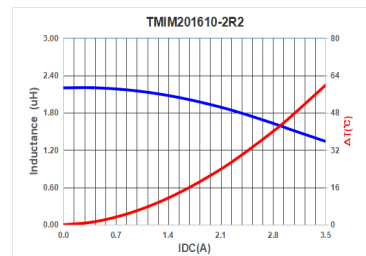
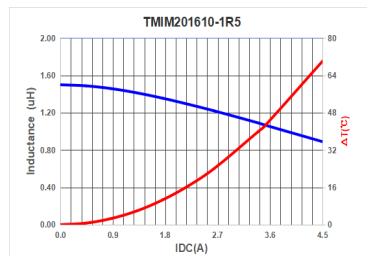
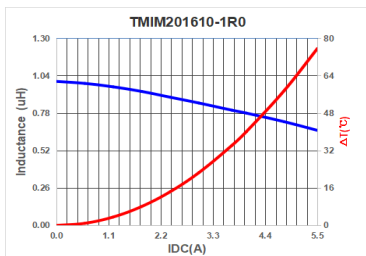
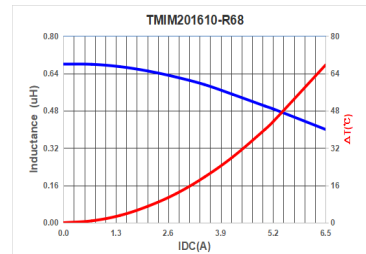
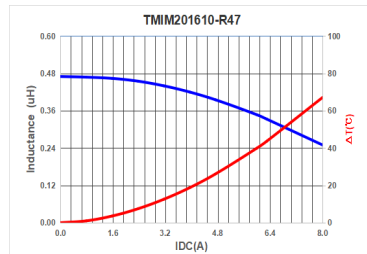
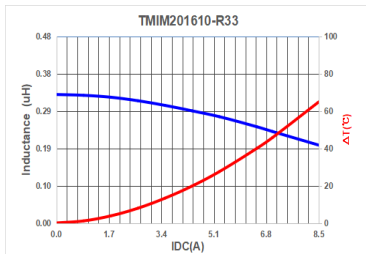
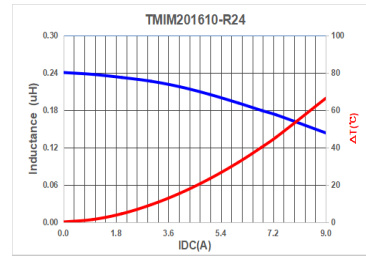
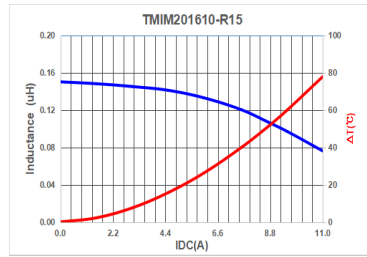
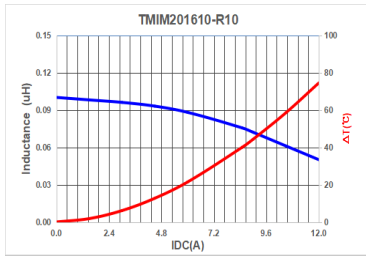
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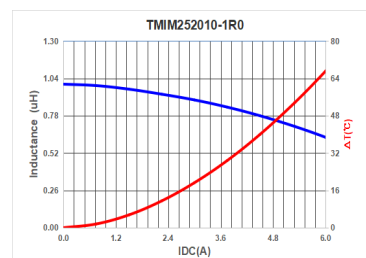
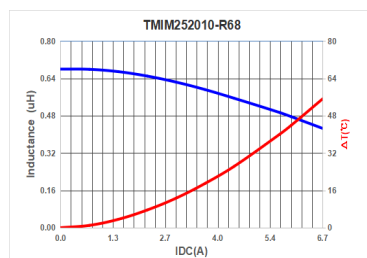
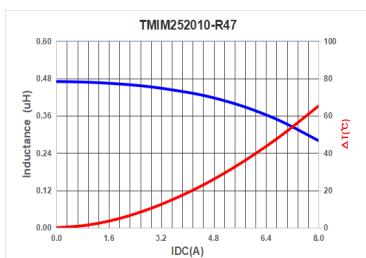
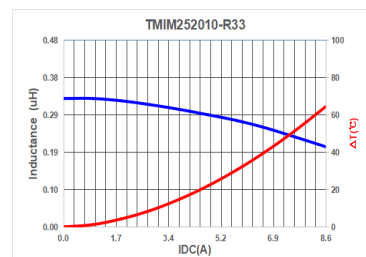
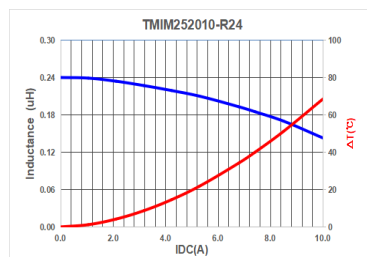
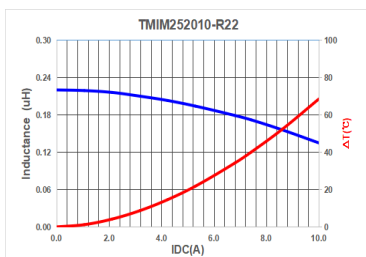
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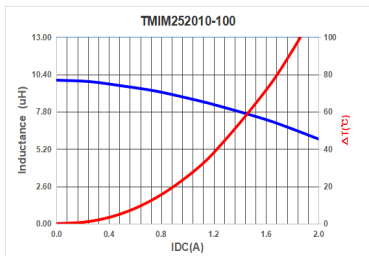
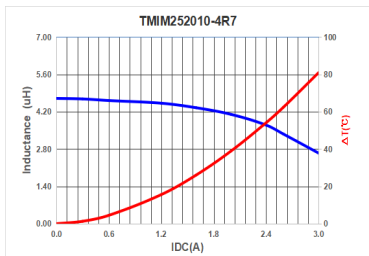
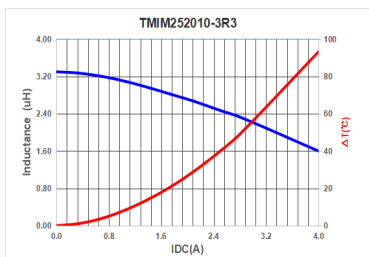
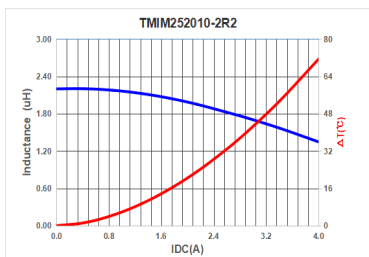
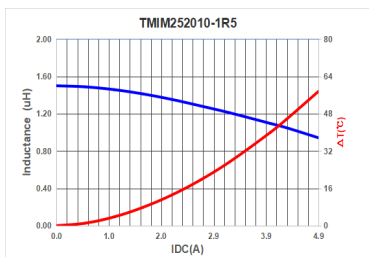


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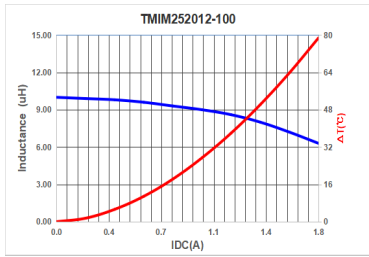
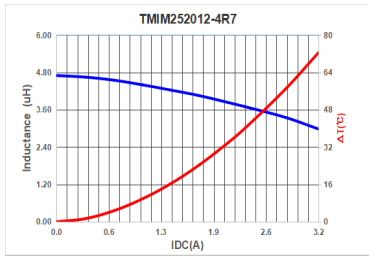
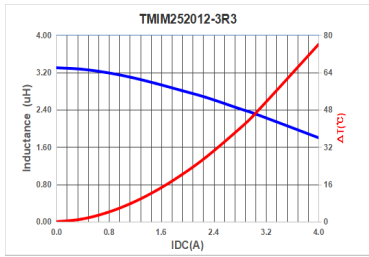
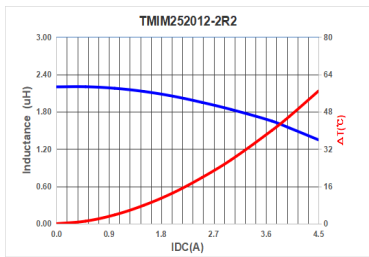
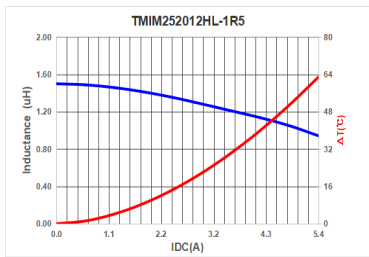
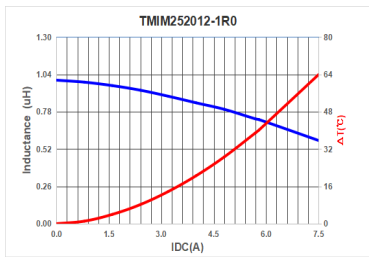
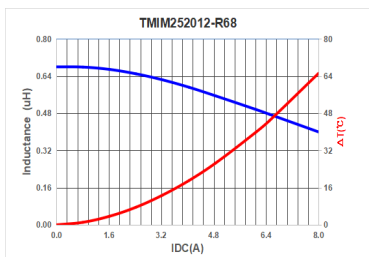
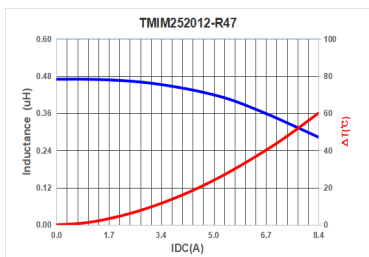
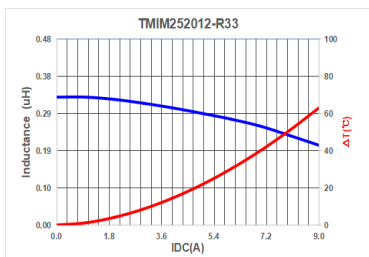
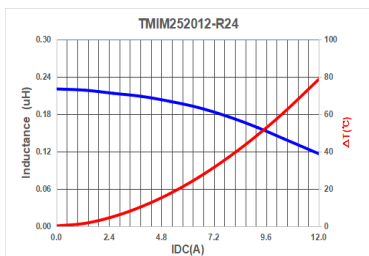
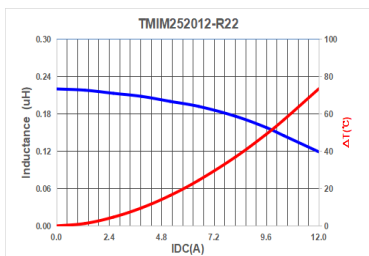
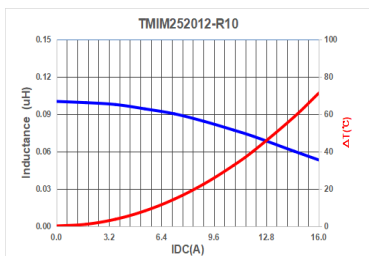


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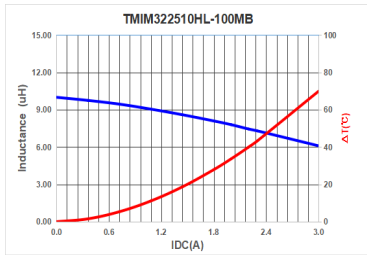
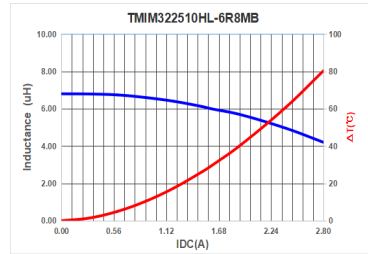
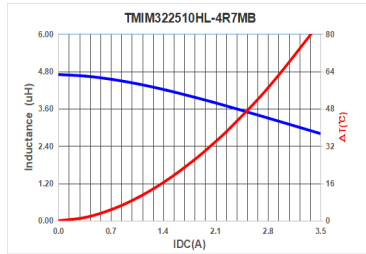
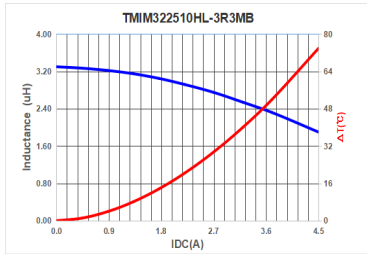
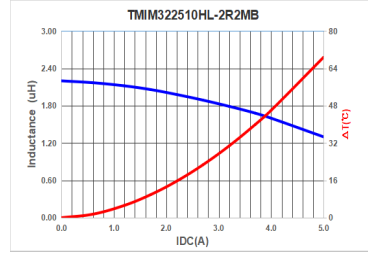
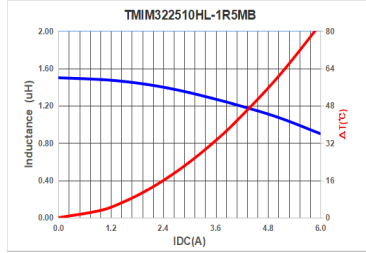
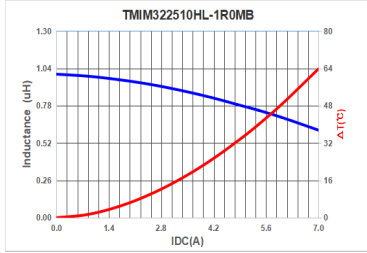
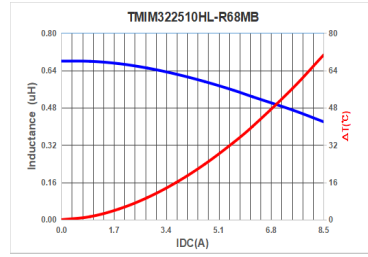
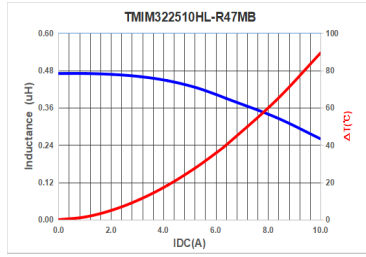
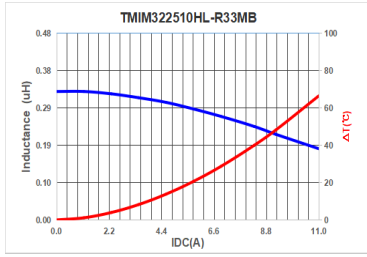




TMIM252012



TMIM322510



TMIM322512

