

规格确认书

SPECIFICATION

客 户

CUSTOMER: _____

客 户 料 号

CUSTOMER P/N: _____

物 料 名 称

小尺寸模压片式功率电感

MODEL NO: _____

Mini Molded Chip Power Inductors

料 号

HWTC 系列

P/N: _____

HWTC series

文 件 编 号

FILE NO: _____

23-07

日期: 2023-07-06

承办人: 刘俊

DATE: July 06, 2023

ISSUEDER: Liu Jun

客户确认 APPROVED BY

签名:

日期:

SIGN:

DATE:

结论 RESULT: _____

确认后请回传 PLEASE RETURN BY ONE COPY

●特征

铁合金材料，高通流，低损耗。
黑胶热喷，表面致密性更好。
闭合磁路设计，漏磁干扰小。
工作温度范围-55°C 至+125°C

●用途

智能手机、平板。
笔记本电脑、虚拟现实、增强现实。
便携式游戏机、智能穿戴 WiFi 模组。

●品名系统

HWTC	252012	S	4R7	M	T
①	②	③	④	⑤	⑥
① 产品代号: 小尺寸模压片式功率电感。					
② 尺寸规格: 252012=2.5x2.0x1.2(mm)					
	160865=1.6x0.8x6.5(mm)				
	160808=1.6x0.8x0.8(mm)				
	141207=1.4x1.2x0.7(mm)				
	141208=1.4x1.2x0.8(mm)				
	201208=2.0x1.2x0.8(mm)				
	201210=2.0x1.2x1.0(mm)				
	201608=2.0x1.6x0.8(mm)				
	201610=2.0x1.6x1.0(mm)				
	252008=2.5x2.0x0.8(mm)				
	252010=2.5x2.0x1.0(mm)				
	322520=3.2x2.5x2.0(mm)				
	303012=3.0x3.0x1.2(mm)				
	303018=3.0x3.0x1.8(mm)				
	303020=3.0x3.0x2.0(mm)				
	404012=4.0x4.0x1.2(mm)				
	404020=4.0x4.0x2.0(mm)				
	404030=4.0x4.0x3.0(mm)				
③ 尺寸误差: S=±0.2mm D=±0.1mm					
④ 电感量标称值:1R0=1μH					
⑤ 电感量公差:M=±20% N=±30%					
⑥ 包装: T=卷带包装。					

●FEATURES

Metal material for large current and low loss.
Vinyl thermal spray,better surface compactness.
Closed magnetic circuit design reduces leakage flux.
Operating temperature range -55°Cto+125°C

●Applications

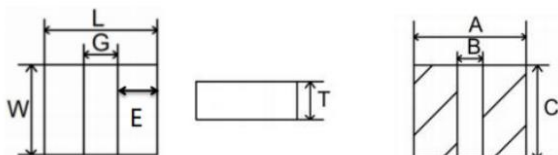
Smart phone,pad.
Notebooks,VR,AR.
Portable gaming devices,Smart wear,Wi-Fi module.

●Product Identification

HWTC	252012	S	4R7	M	T
①	②	③	④	⑤	⑥
① Product symbol: Mini Molded Power Inductor					
② Dimension: 252012=2.5x2.0x1.2(mm)					
	160865=1.6x0.8x6.5(mm)				
	160808=1.6x0.8x0.8(mm)				
	141207=1.4x1.2x0.7(mm)				
	141208=1.4x1.2x0.8(mm)				
	201208=2.0x1.2x0.8(mm)				
	201210=2.0x1.2x1.0(mm)				
	201608=2.0x1.6x0.8(mm)				
	201610=2.0x1.6x1.0(mm)				
	252008=2.5x2.0x0.8(mm)				
	252010=2.5x2.0x1.0(mm)				
	322520=3.2x2.5x2.0(mm)				
	303012=3.0x3.0x1.2(mm)				
	303018=3.0x3.0x1.8(mm)				
	303020=3.0x3.0x2.0(mm)				
	404012=4.0x4.0x1.2(mm)				
	404020=4.0x4.0x2.0(mm)				
	404030=4.0x4.0x3.0(mm)				
③ Size Tolerance: S=±0.2mm D=±0.1mm					
④ Inductance: 1R0=1μH					
⑤ Tolerance: M=±20% N=±30%					
⑥ Packing:T=Tape & Reel					

●结构及尺寸

●Structure And Dimensions



Units:mm

Series	L	G	W	E	T	A	B	C
100765	1.0±0.1	0.4±0.2	0.7±0.1	0.30±0.2	0.65Max.	1.10	0.30	0.80
121065	1.2±0.2	0.4±0.2	1.0±0.2	0.40±0.2	0.65Max.	1.30	0.30	1.10
160865	1.6±0.2	0.6±0.2	0.8±0.2	0.50±0.2	0.65Max.	1.70	0.50	0.90
160808	1.6±0.2	0.6±0.2	0.8±0.2	0.50±0.2	0.80Max.	1.70	0.50	0.90
141265	1.4±0.2	0.5±0.2	1.2±0.2	0.45±0.2	0.65Max.	1.50	0.40	1.30
141207	1.4±0.2	0.5±0.2	1.2±0.2	0.45±0.2	0.70Max.	1.50	0.40	1.30
141208	1.4±0.2	0.5±0.2	1.2±0.2	0.45±0.2	0.80Max.	1.50	0.40	1.30
201265	2.0±0.2	0.6±0.2	1.2±0.2	0.70±0.2	0.65Max.	2.10	0.50	1.30
201208	2.0±0.2	0.6±0.2	1.2±0.2	0.70±0.2	0.80Max.	2.10	0.50	1.30
201210	2.0±0.2	0.6±0.2	1.2±0.2	0.70±0.2	1.00Max.	2.10	0.50	1.30
201212	2.0±0.2	0.6±0.2	1.2±0.2	0.70±0.2	1.20Max.	2.10	0.50	1.30
201655	2.0±0.2	0.6±0.2	1.6±0.2	0.70±0.2	0.55Max.	2.10	0.50	1.70
201665	2.0±0.2	0.6±0.2	1.6±0.2	0.70±0.2	0.65Max.	2.10	0.50	1.70
201601	2.0±0.2	0.6±0.2	1.6±0.2	0.70±0.2	0.70Max.	2.10	0.50	1.70
201608	2.0±0.2	0.6±0.2	1.6±0.2	0.70±0.2	0.80Max.	2.10	0.50	1.70
201610	2.0±0.2	0.6±0.2	1.6±0.2	0.70±0.2	1.00Max.	2.10	0.50	1.70
201610	2.0±0.1	0.6±0.2	1.6±0.1	0.70±0.2	1.00Max.	2.00	0.50	1.60
201612	2.0±0.2	0.6±0.2	1.6±0.2	0.70±0.2	1.20Max.	2.10	0.50	1.70
252075	2.5±0.2	0.8±0.2	2.0±0.2	0.85±0.2	0.75Max.	2.60	0.70	2.10
252008	2.5±0.2	0.8±0.2	2.0±0.2	0.85±0.2	0.80Max.	2.60	0.70	2.10
252010	2.5±0.2	0.8±0.2	2.0±0.2	0.85±0.2	1.00Max.	2.60	0.70	2.10
252012	2.5±0.2	0.8±0.2	2.0±0.2	0.85±0.2	1.20Max.	2.60	0.70	2.10
322510	3.2±0.2	1.0±0.2	2.5±0.2	1.05±0.2	1.00Max.	3.20	0.90	2.50
322512	3.2±0.2	1.0±0.2	2.5±0.2	1.05±0.2	1.20Max.	3.20	0.90	2.50
322520	3.2±0.2	1.0±0.2	2.5±0.2	1.05±0.2	2.00Max.	3.20	0.90	2.50
303010	3.0±0.1	0.9±0.2	3.0±0.1	1.00±0.2	1.00Max.	3.00	0.80	3.00
303012	3.0±0.1	0.9±0.2	3.0±0.1	1.00±0.2	1.20Max.	3.00	0.80	3.00
303015	3.0±0.1	0.9±0.2	3.0±0.1	1.00±0.2	1.50Max.	3.00	0.80	3.00
303018	3.0±0.1	0.9±0.2	3.0±0.1	1.00±0.2	1.80Max.	3.00	0.80	3.00
303020	3.0±0.1	0.9±0.2	3.0±0.1	1.00±0.2	2.00Max.	3.00	0.80	3.00
404010	4.1±0.2	1.3±0.2	4.1±0.2	1.40±0.2	1.00Max.	4.10	1.10	4.10
404012	4.1±0.2	1.3±0.2	4.1±0.2	1.40±0.2	1.20Max.	4.10	1.10	4.10
404020	4.1±0.2	1.3±0.2	4.1±0.2	1.40±0.2	2.00Max.	4.10	1.10	4.10
404030	4.1±0.2	1.3±0.2	4.1±0.2	1.40±0.2	3.00Max.	4.10	1.10	4.10

●规格

Specifications

HWTC100765系列(TYPE)

P/N	L0(μH) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
HWTC100765D1R5MT	1.5	400	500	0.4	0.3	1.1	0.9
HWTC100765D2R6MT	2.6	750	900	0.55	0.4	1.0	0.8

HWTC121065系列(TYPE)

P/N	L0(μH) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
HWTC121065S2R2MT	2.2	280	340	1.0	0.9	1.3	1.2

HWTC160865系列(TYPE)

P/N	L0(μH) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
HWTC160865SR22MT	0.22	35	43	4.0	3.5	5.0	4.5
HWTC160865SR47MT	0.47	66	82	2.3	2.0	3.3	3.0
HWTC160865SR47MTA	0.47	65	78	2.5	3.0	3.5	3.2
HWTC160865S1R0MT	1.0	180	200	1.8	1.5	2.4	2.0
HWTC160865S1R0MTA	1.0	140	160	2.2	1.8	2.2	2.0
HWTC160865S2R2MT	2.2	390	430	1.3	1.1	1.6	1.3

HWTC160808系列(TYPE)

P/N	L0(μH) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
HWTC160808SR22MT	0.22	33	40	3.4	3.0	5.5	5.0
HWTC160808SR24MT	0.24	34	41	3.3	2.9	5.3	4.8
HWTC160808SR24MTA	0.24	22	26	3.9	3.5	4.9	4.4
HWTC160808SR47MT	0.47	80	100	2.6	2.3	4.1	3.7
HWTC160808SR47MTA	0.47	38	45	4.2	4.0	4.0	3.5
HWTC160808SR56MT	0.56	85	110	2.2	1.9	4.0	3.5
HWTC160808SR56MTA	0.56	51	63	2.5	2.2	3.0	2.7
HWTC160808SR68MT	0.68	110	130	2.1	1.9	3.3	3.0
HWTC160808S1R0MT	1.0	180	200	2.1	1.8	3.0	2.6
HWTC160808S1R0MTA	1.0	105	115	2.1	1.8	2.3	2.1

HWTC160808系列(TYPE)

P/N	L0(μH) 1MHz	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
		Typical	Max	Typical	Max	Typical	Max
HWTC160808S1R5MT	1.5	240	285	1.7	1.4	2.4	2.0
HWTC160808S2R2MT	2.2	220	260	1.4	1.2	1.5	1.3
HWTC160808S3R3MT	3.3	500	600	1.0	0.9	1.4	1.2
HWTC160808S4R7MT	4.7	585	700	1.0	0.8	1.2	1.0
HWTC160808S100MT	10.0	1450	1600	0.5	0.45	0.8	0.7

HWTC141265系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC141265SR33MT	0.33	26	32	4.4	4.2	4.4	4.0
HWTC141265SR33MTA	0.33	26	32	4.4	4.2	4.4	4.0
HWTC141265SR47MT	0.47	37	45	3.0	2.7	3.4	3.0
HWTC141265SR47MTA	0.47	37	45	3.0	2.7	3.4	3.0
HWTC141265SR47MTB	0.47	35	38	2.9	2.6	3.9	3.6

HWTC141207系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC141207SR24MBCA	0.24	22	28	4.0	3.6	4.6	4.3
HWTC141207SR47MBCA	0.47	34	38	3.8	3.3	3.8	3.5

HWTC141208系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC141208SR24MT	0.24	22	27	4.1	3.7	6.0	5.7
HWTC141208SR24MTA	0.24	21	24	6.6	6.0	7.2	6.5
HWTC141208SR33MT	0.33	23	28	4.0	3.5	5.3	5.0
HWTC141208SR33MTA	0.33	23	28	4.0	3.5	5.3	5.0
HWTC141208SR47MT	0.47	29	35	3.8	3.3	4.6	4.2
HWTC141208SR47MTA	0.47	29	35	3.8	3.3	4.6	4.2
HWTC141208S1R0MT	1.0	65	77	3.0	2.5	3.0	2.5

HWTC201265(2.0*1.2*0.65mm)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC201265S1R0MT	1.0	78	86	2.6	2.3	2.8	2.5
HWTC201265S2R2MT	2.2	215	230	1.7	1.4	1.8	1.5

HWTC201208系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC201208SR11MT	0.11	10	12	7.0	6.5	9.5	9.0
HWTC201208SR15MT	0.15	11	13	6.8	6.3	7.5	7.0
HWTC201208SR24MT	0.24	18	23	6.5	5.9	6.5	6.0
HWTC201208SR24MTA	0.24	18	23	6.5	5.9	6.5	6.0
HWTC201208SR24MTB	0.24	17	20	6.5	5.9	7.0	6.6
HWTC201208SR33MT	0.33	33	45	4.3	4.0	5.2	4.8
HWTC201208SR47MT	0.47	34	50	3.5	3.3	5.0	4.6
HWTC201208SR47MTA	0.47	34	50	3.5	3.3	5.0	4.6
HWTC201208SR47MTB	0.47	24	28	4.7	4.5	5.2	4.8
HWTC201208SR68MT	0.68	50	60	3.7	3.3	4.2	3.7
HWTC201208S1R0MT	1.0	55	70	3.3	2.9	4.0	3.5
HWTC201208S1R0MTA	1.0	48	55	3.2	2.8	3.2	2.8
HWTC201208S1R0MTB	1.0	48	55	3.2	2.8	3.2	2.8
HWTC201208S1R5MT	1.5	118	135	2.2	1.9	3.0	2.5
HWTC201208S2R2MT	2.2	160	185	2.2	1.8	2.6	2.3
HWTC201208S2R2MTA	2.2	130	156	1.8	1.6	2.2	2.0
HWTC201208S3R3MT	3.3	253	300	1.8	1.5	1.9	1.6
HWTC201208S4R7MT	4.7	285	325	1.7	1.5	1.6	1.4

HWTC201210系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC201210SR10MT	0.1	8.0	13	7.5	7.0	8.5	8.0
HWTC201210SR22MT	0.22	16	22	7.1	6.5	7.3	6.8
HWTC201210SR24MT	0.24	17	23	7.0	6.4	7.2	6.7
HWTC201210SR24MTA	0.24	13	17	7.0	6.4	7.2	6.7
HWTC201210SR33MT	0.33	24	32	5.5	5.0	6.5	6.0

HWTC201265系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC201265S1R0MT	1.0	78	86	2.6	2.3	2.8	2.5
HWTC201265S2R2MT	2.2	215	230	1.7	1.4	1.8	1.5

HWTC201208系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC201208SR11MT	0.11	10	12	7.0	6.5	9.5	9.0
HWTC201208SR15MT	0.15	11	13	6.8	6.3	7.5	7.0
HWTC201208SR24MT	0.24	18	23	6.5	5.9	6.5	6.0
HWTC201208SR24MTA	0.24	18	23	6.5	5.9	6.5	6.0
HWTC201208SR24MTB	0.24	17	20	6.5	5.9	7.0	6.6
HWTC201208SR33MT	0.33	33	45	4.3	4.0	5.2	4.8
HWTC201208SR47MT	0.47	34	50	3.5	3.3	5.0	4.6
HWTC201208SR47MTA	0.47	34	50	3.5	3.3	5.0	4.6
HWTC201208SR47MTB	0.47	24	28	4.7	4.5	5.2	4.8
HWTC201208SR68MT	0.68	50	60	3.7	3.3	4.2	3.7
HWTC201208S1R0MT	1.0	55	70	3.3	2.9	4.0	3.5
HWTC201208S1R0MTA	1.0	48	55	3.2	2.8	3.2	2.8
HWTC201208S1R0MTB	1.0	48	55	3.2	2.8	3.2	2.8
HWTC201208S1R5MT	1.5	118	135	2.2	1.9	3.0	2.5
HWTC201208S2R2MT	2.2	160	185	2.2	1.8	2.6	2.3
HWTC201208S2R2MTA	2.2	130	156	1.8	1.6	2.2	2.0
HWTC201208S3R3MT	3.3	253	300	1.8	1.5	1.9	1.6
HWTC201208S4R7MT	4.7	285	325	1.7	1.5	1.6	1.4

HWTC201210系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC201210SR10MT	0.1	8.0	13	7.5	7.0	8.5	8.0
HWTC201210SR22MT	0.22	16	22	7.1	6.5	7.3	6.8
HWTC201210SR24MT	0.24	17	23	7.0	6.4	7.2	6.7
HWTC201210SR24MTA	0.24	13	17	7.0	6.4	7.2	6.7
HWTC201210SR33MT	0.33	24	32	5.5	5.0	6.5	6.0
HWTC201210SR33MTA	0.33	14	16	5.7	5.2	6.7	6.3
HWTC201210SR47MT	0.47	29	36	4.7	4.3	5.5	5.0
HWTC201210SR47MTA	0.47	22	26	5.0	4.5	6.0	5.5
HWTC201210SR68MT	0.68	37	43	4.3	4.0	5.0	4.5
HWTC201210S1R0MT	1.0	55	63	3.9	3.5	4.0	3.5
HWTC201210S1R5MT	1.5	76	85	3.1	2.6	3.2	2.7
HWTC201210S2R2MT	2.2	135	150	2.0	1.7	2.7	2.4
HWTC201210S3R3MT	3.3	210	260	1.8	1.5	2.2	1.8
HWTC201210S4R7MT	4.7	275	300	1.6	1.4	1.8	1.6
HWTC201210S6R8MT	6.8	440	520	1.5	1.3	1.45	1.2
HWTC201210S100MT	10.0	600	660	1.1	1.0	1.2	1.0

HWTC201212系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC201212SR11MT	0.11	5.5	6.2	12	11	12.0	11.0
HWTC201212SR24MT	0.24	13	16	7.5	7.0	9.0	8.5
HWTC201212SR47MT	0.47	20	23.5	6.0	5.5	5.5	5.0
HWTC201212S3R3MT	3.3	180	210	1.8	1.6	2.0	1.8

HWTC201655系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC201655SR33MT	0.33	34	41	4.0	3.5	4.0	3.5
HWTC201655SR47MT	0.47	44	53	3.5	3.0	3.5	3.0

HWTC201665系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC201665S1R0MT	1.0	58	70	3.5	3.0	3.0	2.7

HWTC201607系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC201607S2R2MT	2.2	150	175	2.1	1.8	2.3	2.0

HWTC201608系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC201608SR22MT	0.22	14	19	6.6	5.9	6.1	5.6
HWTC201608SR24MT	0.24	14	20	6.5	5.8	6.0	5.5
HWTC201608SR33MT	0.33	18	24	5.5	4.8	5.8	5.3
HWTC201608SR47MT	0.47	24	27	4.6	4.4	5.5	5.0
HWTC201608SR47MTA	0.47	24	27	4.6	4.4	5.5	5.0
HWTC201608SR68MT	0.68	39	44	3.8	3.5	4.6	4.2
HWTC201608S1R0MT	1.0	53	60	3.6	3.3	3.3	3.1
HWTC201608S1R0MTA	1.0	45	52	3.6	3.3	3.8	3.5
HWTC201608S1R5MT	1.5	73	85	3.1	2.8	3.0	2.8
HWTC201608S2R2MT	2.2	123	140	2.2	2.0	2.5	2.3
HWTC201608S3R3MT	3.3	200	220	1.8	1.5	2.1	1.8
HWTC201608S4R7MT	4.7	260	290	1.6	1.4	1.7	1.5
HWTC201608S100MT	10.0	690	800	1.0	0.9	1.0	0.9

HWTC201610系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC201610SR10MT	0.10	7.0	12	8.5	8.0	9.0	8.4
HWTC201610SR11MT	0.11	7.5	13	8.0	7.5	8.9	8.2
HWTC201610SR15MT	0.15	8.0	14	7.6	7.0	8.7	8.0
HWTC201610SR22MT	0.22	11	18	6.9	6.3	8.2	7.5
HWTC201610SR24MT	0.24	12	19	6.8	6.2	8.0	7.4
HWTC201610SR24MTA	0.24	11	14	6.8	6.2	8.0	7.4
HWTC201610SR33MT	0.33	17	22	5.7	5.3	7.0	6.5
HWTC201610SR33MTA	0.33	17	22	5.7	5.3	7.0	6.5
HWTC201610SR47MT	0.47	22	25	5.5	5.0	6.3	5.5
HWTC201610SR47MTA	0.47	22	25	5.8	5.6	6.5	6.0
HWTC201610SR47MTB	0.47	22	25	5.5	5.0	6.3	5.5
HWTC201610SR47MTC	0.47	19	23	6.0	5.6	6.2	5.6
HWTC201610SR68MT	0.68	25	32	4.6	4.3	5.2	4.7
HWTC201610SR68MTA	0.68	25	32	5.5	5.2	5.7	5.5
HWTC201610S1R0MT	1.0	35	43	4.5	4.1	4.6	4.2
HWTC201610S1R0MTA	1.0	35	43	4.5	4.1	4.6	4.2
HWTC201610S1R0MTB	1.0	31	36	4.6	4.2	4.7	4.2
HWTC201610S1R0MTC	1.0	31	36	4.6	4.2	4.7	4.2
HWTC201610S1R5MT	1.5	80	100	2.6	2.3	3.2	2.9
HWTC201610S2R2MT	2.2	120	130	2.5	2.1	3.0	2.8
HWTC201610S2R2MTA	2.2	120	130	2.5	2.1	3.0	2.8
HWTC201610S2R2MTB	2.2	105	115	2.5	2.1	3.0	2.8
HWTC201610D2R2MTC	2.2	115	125	2.5	2.2	3.3	3.0
HWTC201610S3R3MT	3.3	140	170	1.7	1.5	2.3	2.0
HWTC201610D4R7MT	4.7	250	276	1.6	1.4	1.9	1.7
HWTC201610S4R7MTA	4.7	190	220	1.6	1.4	2.0	1.8
HWTC201610S4R7MTB	4.7	190	220	1.6	1.4	2.0	1.8
HWTC201610S100MT	10.0	483	580	1.0	0.7	1.4	1.1

HWTC201612系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC201612SR10MT	0.10	4.0	6.0	12	10	13	11.5
HWTC201612SR15MT	0.15	7.5	10	10	9.0	12	10.5
HWTC201612SR24MT	0.24	9.0	11	9.1	8.6	9.2	8.7
HWTC201612SR33MT	0.33	10	15	7.7	7.2	7.8	7.3

HWTC201612系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC201612SR47MT	0.47	13	17	6.7	6.0	6.7	6.0
HWTC201612SR68MT	0.68	19	23	6.0	5.3	6.0	5.3
HWTC201612S1R0MT	1.0	30	36	5.0	4.5	5.0	4.5
HWTC201612S1R5MT	1.5	40	50	4.0	3.5	4.0	3.5
HWTC201612S2R2MT	2.2	77	90	3.3	2.9	3.1	2.7
HWTC201612S3R3MT	3.3	135	165	2.4	2.0	2.7	2.3

HWTC252075S系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC252075S2R2MT	2.2	78	90	2.3	2.0	2.6	2.4
HWTC252075S100MT	10.0	487	530	1.1	0.9	1.1	0.9

HWTC252008系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC252008SR47MT	0.47	22	27	6.5	6.0	6.0	5.3
HWTC252008S1R0MT	1.0	34	40	4.3	4.0	4.5	4.0
HWTC252008S1R5MT	1.5	64	75	3.4	3.0	3.5	3.0
HWTC252008S2R2MT	2.2	69	77	3.0	2.6	3.0	2.6
HWTC252008S3R3MT	3.3	150	180	2.5	2.1	2.5	2.1
HWTC252008S4R7MT	4.7	180	215	2.0	1.5	1.9	1.5
HWTC252008S100MT	10	500	600	1.4	1.2	1.1	0.9

HWTC252010S系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC252010SR22MT	0.22	12	17	6.8	6.5	8.6	7.9
HWTC252010SR22MTA	0.22	12	17	6.8	6.5	8.6	7.9
HWTC252010SR24MT	0.24	12	17.5	6.7	6.4	8.5	7.8
HWTC252010SR33MT	0.33	13	19	6.5	6.2	7.6	7.2
HWTC252010SR33MTA	0.33	13	19	6.5	6.2	7.6	7.2
HWTC252010SR47MT	0.47	15	22	6.1	5.6	6.9	6.5
HWTC252010SR47MTA	0.47	15	22	6.1	5.6	6.9	6.5
HWTC252010SR47MTB	0.47	13	15	6.5	6.0	6.6	6.0
HWTC252010SR68MT	0.68	23	27	5.6	5.0	5.9	5.5

HWTC252010S系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC252010S1R0MT	1.0	25	30	4.5	4.1	5.3	4.8
HWTC252010S1R0MTA	1.0	25	30	4.5	4.1	5.3	4.8
HWTC252010S1R5MT	1.5	45	55	3.4	3.0	4.3	3.9
HWTC252010S1R5MTA	1.5	45	55	3.4	3.0	4.3	3.9
HWTC252010S2R2MT	2.2	62	70	2.4	2.1	3.3	3.0
HWTC252010S2R2MTA	2.2	62	70	2.4	2.1	3.3	3.0
HWTC252010S2R2MTB	2.2	62	70	2.6	2.3	3.7	3.3
HWTC252010S2R2MTC	2.2	62	70	4.0	3.2	3.4	3.1
HWTC252010S3R3MT	3.3	86	100	2.5	2.1	2.8	2.5
HWTC252010S3R3MTA	3.3	86	100	2.5	2.1	2.8	2.5
HWTC252010S4R7MT	4.7	160	180	2.0	1.6	2.6	2.0
HWTC252010S4R7MTA	4.7	160	180	2.0	1.6	2.6	2.0
HWTC252010S4R7MTB	4.7	145	160	2.0	1.6	2.6	2.0
HWTC252010S6R8MT	6.8	270	320	1.6	1.4	2.4	1.9
HWTC252010S100MT	10.0	500	560	1.05	0.95	1.55	1.4
HWTC252010S100MTA	10.0	500	560	1.05	0.95	1.55	1.4
HWTC252010S220MT	22.0	1100	1300	0.85	0.6	1.1	0.9

HWTC252012S系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC252012SR10MT	0.1	6	10	12	10.5	13.5	12.5
HWTC252012SR15MT	0.15	7	11	11.5	10	13.0	12.0
HWTC252012SR22MT	0.22	9	14	8.2	7.6	9.6	9.0
HWTC252012SR24MT	0.24	10	15	8.0	7.5	9.3	8.8
HWTC252012SR24MTA	0.24	10	15	8.0	7.5	9.3	8.8
HWTC252012SR33MT	0.33	11	17	6.8	6.4	8.3	7.8
HWTC252012SR47MT	0.47	13	19	6.5	6.0	7.5	7.0
HWTC252012SR47MTA	0.47	11	13	8.0	7.5	8.5	8.0
HWTC252012SR47MTB	0.47	11	13	8.0	7.5	8.5	8.0
HWTC252012SR68MT	0.68	17	23	6.3	5.5	6.5	6.0
HWTC252012SR68MTA	0.68	15	18	7.5	7.0	6.7	6.0
HWTC252012SR82MT	0.82	19	24	5.8	5.3	6.5	5.8
HWTC252012S1R0MT	1.0	35	42	4.0	3.6	5.6	5.0
HWTC252012S1R0MTA	1.0	16	22	5.2	4.5	6.5	6.0

HWTC252012系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC252012S1R0MTB	1.0	16	22	5.2	4.5	6.5	6.0
HWTC252012S1R0MTC	1.0	30	36	5.5	5.0	5.6	5.0
HWTC252012S1R2MT	1.2	40	45	3.8	3.4	4.5	4.1
HWTC252012S1R5MT	1.5	44	50	3.7	3.2	4.5	4.1
HWTC252012S1R5MTA	1.5	27	32	4.6	4.2	4.7	4.4
HWTC252012S1R5MTB	1.5	44	50	3.7	3.2	4.5	4.1
HWTC252012S2R2MT	2.2	55	65	3.0	2.7	3.8	3.3
HWTC252012S2R2MTA	2.2	55	65	3.0	2.7	3.8	3.3
HWTC252012S3R3MI	3.3	80	97	2.3	1.8	3.0	2.7
HWTC252012S4R7MT	4.7	150	170	1.8	1.5	2.4	2.1
HWTC252012S4R7MTA	4.7	150	170	1.8	1.5	2.4	2.1
HWTC252012S6R8MT	6.8	245	270	1.6	1.4	2.0	1.7
HWTC252012S100MT	10.0	330	400	1.2	1.05	1.6	1.45
HWTC252012S100MTA	10.0	330	400	1.2	1.05	1.6	1.45

HWTC322510系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC322510SR22MT	0.22	9	11	8.5	8.0	8.5	8.0
HWTC322510SR33MT	0.33	11	15	8.3	7.8	8.3	7.8
HWTC322510SR47MT	0.47	17	22	6.4	5.9	8.3	7.6
HWTC322510SR68MT	0.68	22	28	6.2	5.7	7.5	7.0
HWTC322510S1R0MT	1.0	25	30	5.4	4.9	6.0	5.3
HWTC322510S1R5MT	1.5	34	42	4.0	3.6	5.0	4.4
HWTC322510S2R2MT	2.2	55	66	3.7	3.4	4.0	3.5
HWTC322510S3R3MT	3.3	105	120	2.7	2.3	3.7	3.3
HWTC322510S4R7MT	4.7	125	140	2.3	1.9	2.8	2.5
HWTC322510S6R8MT	6.8	290	320	1.9	1.6	2.4	2.0
HWTC322510S100MT	10.0	325	365	2.2	1.8	2.2	1.8

HWTC322512系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC322512SR10MT	0.10	5.2	7.0	12.0	11.0	18.0	16.5
HWTC322512SR22MT	0.22	6.6	10	9.2	8.7	11.5	11.0
HWTC322512SR22MTA	0.22	6.6	10	9.2	8.7	11.5	11.0
HWTC322512SR24MT	0.24	7.0	12	9.0	8.5	11	10.5
HWTC322512SR33MT	0.33	9.0	14	8.4	8.1	10	9.5
HWTC322512SR47MT	0.47	14	19	7.5	7.2	8.6	8.2
HWTC322512SR47MTA	0.47	14	19	7.5	7.2	8.6	8.2
HWTC322512SR47MTB	0.47	11	14	7.5	7.2	8.6	8.2
HWTC322512SR68MT	0.68	18	23	7.3	6.8	8.1	7.7
HWTC322512SR68MTA	0.68	12	15	7.0	6.5	8.0	7.5
HWTC322512S1R0MT	1.0	26	30	5.3	4.8	6.6	5.8
HWTC322512S1R0MTA	1.0	26	30	5.3	4.8	6.6	5.8
HWTC322512S1R0MTB	1.0	18	21	5.5	5.0	7.7	7.0
HWTC322512S1R5MT	1.5	37	44	4.7	4.3	5.1	4.7
HWTC322512S2R2MT	2.2	58	70	3.6	3.0	4.6	4.2
HWTC322512S2R2MTA	2.2	42	50	4.2	3.7	5.0	4.5
HWTC322512S2R2MTB	2.2	42	50	4.2	3.7	5.0	4.5
HWTC322512S3R3MT	3.3	75	95	2.9	2.5	3.7	3.2
HWTC322512S3R3MTA	3.3	75	95	2.9	2.5	3.7	3.2
HWTC322512S3R3MTB	3.3	62	67	2.9	2.5	3.7	3.2

HWTC322512系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC322512S4R7MMT	4.7	115	135	2.3	2.0	2.9	2.6
HWTC322512S4R7MTA	4.7	105	120	2.5	2.1	3.0	2.6
HWTC322512S4R7MTB	4.7	115	135	2.3	2.0	3.2	2.8
HWTC322512S6R8MT	6.8	177	210	2.1	1.9	2.8	2.4
HWTC322512S100MT	10.0	210	230	2.2	1.8	2.3	1.9

HWTC322520系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC322520SR33MT	0.33	7.5	9	9.5	9	15.5	14
HWTC322520SR47MT	0.47	9	10.5	9.5	8.5	15	13
HWTC322520SR68MT	0.68	12.5	14.5	9.0	8.0	13	11
HWTC322520S1R0MT	1.0	15	17.5	8.2	7.5	9.0	8.3
HWTC322520S1R5MT	1.5	22	25	6.5	6.0	6.8	6.0
HWTC322520S2R2MT	2.2	36	43	5.4	4.8	6.5	5.5
HWTC322520S3R3MT	3.3	55	60	4.5	4.0	4.5	3.5
HWTC322520S4R7MT	4.7	81	94	3.5	3.0	4.0	3.0
HWTC322520S6R8MT	6.8	101	125	2.8	2.3	3.8	2.9

HWTC303010系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC303010D6R8MT	6.8	225	270	2.1	1.8	1.8	1.5
HWTC303010D100MT	10.0	320	360	2.0	1.7	1.6	1.3

HWTC303012系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC303012D1R0MT	1.0	23	27	5.5	5.0	6.0	5.5
HWTC303012D4R7MT	4.7	100	120	3.0	2.5	3.0	2.5
HWTC303012D100MT	10.0	192	220	2.3	1.9	2.3	2.0
HWTC303012D150MT	15.0	345	380	1.6	1.3	1.9	1.6

HWTC303015系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC303015DR15MT	0.15	5.0	6.0	12.0	11.0	16.0	15.0
HWTC303015DR47MT	0.47	9	11	9.0	8.0	10.0	9.0

HWTC303015系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC303015D1R0MT	1.0	18	22	6.0	5.5	7.0	6.5
HWTC303015D2R2MT	2.2	42	50	4.5	4.0	5.0	4.5
HWTC303015D4R7MT	4.7	87	104	3.5	3.0	4.0	3.5
HWTC303015D6R8MT	6.8	160	180	2.5	2.0	3.5	3.0
HWTC303015D100MT	10.0	185	215	2.0	1.5	2.8	2.5
HWTC303015D220MT	22.0	580	700	1.2	1.0	1.6	1.2

HWTC303018系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC303018DR22MT	0.22	5.5	7.0	10.0	9.0	17	16
HWTC303018DR47MT	0.47	8	10	9.0	8.0	12	11
HWTC303018D1R0MT	1.0	15	21	6.3	5.8	7.6	6.8
HWTC303018D1R5MT	1.5	20	26	6.8	6.4	8.0	7.0
HWTC303018D4R7MT	4.7	72	87	3.4	3.0	4.7	4.2

HWTC303020系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC303020DR15MT	0.15	4.0	5.0	13.0	12.0	18.0	17.0
HWTC303020DR33MT	0.33	7.5	9	10.0	9.0	17	15
HWTC303020DR50MT	0.5	9.0	12	9.0	8.0	15	13
HWTC303020DR68MT	0.68	13	16	8.5	7.8	13	11
HWTC303020D1R0MT	1.0	14	20	6.5	6.0	8.0	7.3
HWTC303020D1R5MT	1.5	19	25	6.3	5.8	7.0	6.5
HWTC303020D2R2MT	2.2	37	45	4.7	4.3	6.0	5.5
HWTC303020D3R3MT	3.3	52	63	4.5	4.0	5.9	5.4
HWTC303020D4R7MI	4.7	60	73	4.2	3.8	4.8	4.0
HWTC303020D6R8MT	6.8	107	135	3.2	3.0	4.5	3.8
HWTC303020D100MT	10.0	135	160	2.5	2.2	3.8	3.3
HWTC303020D150MT	15.0	235	260	1.8	1.5	2.6	2.2

HWTC404010系列(TYPE)

P/N	L0(μH)	Rdc(mΩ)		Heat rating current Irms(A)		Saturation current Isat(A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC404010S100MT	10	220	280	2.5	2.0	2.2	2.0

HWTC404012系列(TYPE)

P/N	L0(μ H)	Rdc(m Ω)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC404012SR47MT	0.47	11.5	14	9.0	8.5	12	11.5
HWTC404012SR68MT	0.68	15	18	8.5	7.5	10	9.0
HWTC404012S1R0MT	1.0	21	25	6.3	5.5	11	10
HWTC404012S1R5MT	1.5	29	34.5	6.0	5.0	8.0	7.0
HWTC404012S2R2MT	2.2	45	55	5.0	4.5	6.5	6.0
HWTC404012S3R3MT	3.3	67	80	4.5	4.0	5.5	5.0
HWTC404012S4R7MT	4.7	90	110	3.5	3.0	5.0	4.5
HWTC404012S5R6MT	5.6	116	140	3.0	2.5	4.5	4.0
HWTC404012S6R8MT	6.8	132	160	2.8	2.3	3.8	3.5
HWTC404012S100MT	10.0	200	235	2.5	2.0	2.8	2.5

HWTC404020系列(TYPE)

P/N	L0(μ H)	Rdc(m Ω)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC404020SR33MT	0.33	5.0	6.0	9.5	8.5	18.0	17.0
HWTC404020SR47MT	0.47	7.0	8.5	8.5	8.0	16.0	15.0
HWTC404020S1R0MT	1.0	12	14.5	6.5	6.0	12.5	11.5
HWTC404020S1R5MT	1.5	18	22	6.0	5.5	10.5	9.5
HWTC404020S2R2MT	2.2	30	36	5.5	5.0	9.5	8.5
HWTC404020S3R3MT	3.3	35	40	6.3	5.8	8.0	7.0
HWTC404020S4R7MT	4.7	47	58	5.0	4.0	6.3	5.5
HWTC404020S6R8MT	6.8	90	105	3.7	3.2	5.4	4.5
HWTC404020S100MT	10	113	135	3.4	3.0	4.9	4.0
HWTC404020S150MT	15	210	250	2.3	1.7	3.5	3.0
HWTC404020S220MT	22	275	330	1.8	1.3	2.9	2.3

HWTC404030系列(TYPE)

P/N	L0(μ H)	Rdc(m Ω)		Heat rating current I _{rms} (A)		Saturation current I _{sat} (A)	
	1MHz	Typical	Max	Typical	Max	Typical	Max
HWTC404030SR47MT	0.47	5.5	7.0	15	14	23	21
HWTC404030SR68MT	0.68	8.3	10	9.5	8.0	17	15
HWTC404030S1R0MT	1.0	10	12	10	9.0	15.5	14
HWTC404030S1R5MT	1.5	15	18	6.5	6.0	12.5	11
HWTC404030S2R2MT	2.2	19	22	9.0	8.5	10.5	9.5
HWTC404030S3R3MT	3.3	30	35	5.3	4.8	8.5	7.5
HWTC404030S4R7MT	4.7	41	46	4.3	4.0	7.0	6.0
HWTC404030S6R8MT	6.8	51	62	4.2	3.8	6.3	5.1

Notes

All test data is referenced to 25°C ambient.

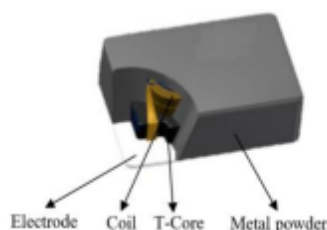
Rated current: I_{sat} or I_{rms} , which ever is smaller.

I_{rms} (A): DC current (A) that will cause an approximate ΔT of 40°C. (reference ambient temperature is 25°C)

I_{sat} (A): DC current (A) that will cause L_0 to drop approximately 30%.

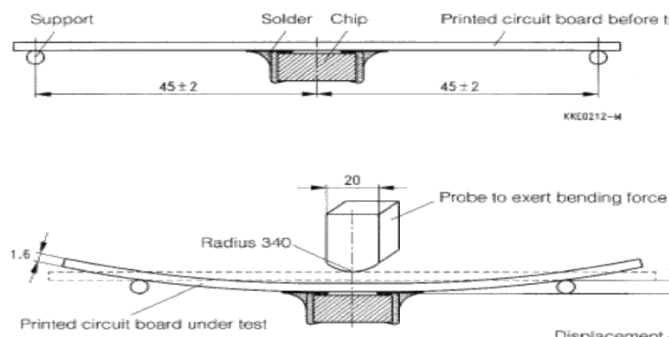
The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

● Structure



● Reliability

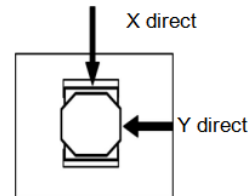
Item	Specification and Requirement	Test Method								
Solderability	1、No case deformation or change in apperarence 2、New solder coverage More than 90%	1.Preheat: 125℃±5℃ ， 60S±2S 2.Tin: lead-free. 3.Temperature:245℃±5℃， flux 3.0S±0.5S.								
Mechanical shock	1. No case deformation or change in apperarence 2. ΔL/Lo≡±10%	1. Acceleration: 100G 2. Pulse time: 6ms 3. 3 times in each positive and negative direction of 3 mutual perpendicular directions								
Mechanical vibration	1. No case deformation or change in apperarence 2. ΔL/Lo≡±10%	1. The test samples shall be soldered to the board. Then it shall be submitted to below test conditions. <table><tr><td>Fre. Range</td><td>10~55Hz</td></tr><tr><td>Total Amplitude</td><td>1.5mm</td></tr><tr><td>Sweeping Method</td><td>10Hz to 55Hz to 10Hz</td></tr><tr><td>Time</td><td>For 2 hours on each X,Y,Z axis.</td></tr></table> 2. Recovery: At least 2 hours of recovery under the standard condition after the test, followed by the measurement within 24 ±2 hours.	Fre. Range	10~55Hz	Total Amplitude	1.5mm	Sweeping Method	10Hz to 55Hz to 10Hz	Time	For 2 hours on each X,Y,Z axis.
Fre. Range	10~55Hz									
Total Amplitude	1.5mm									
Sweeping Method	10Hz to 55Hz to 10Hz									
Time	For 2 hours on each X,Y,Z axis.									

Thermal Shock	Inductance change: Within $\pm 10\%$ Without distinct damage in appearance	1. First -55°C for 30 minutes, last 125°C for 30 minutes as 1 cycle. Go through 1000 cycles. 2. Max transfer time is 2 minutes. 3. Measured at room temperature after placing for 24 ± 2 hours
Humidity Resistance	Inductance change: Within $\pm 10\%$ Without distinct damage in appearance	1. Reflow 2 times, 2. 85°C, 85%RH, 1000 hours 3. Measured at room temperature after placing for 24 ± 2 hours
Low temperature storage	Inductance change: Within $\pm 10\%$ Without distinct damage in appearance	1. Temperature: $-55 \pm 2^{\circ}\text{C}$ 2. Time: 1000 hours 3. Measured at room temperature after placing for 24 ± 2 hours
High temperature storage	Inductance change: Within $\pm 10\%$ Without distinct damage in appearance	1. Temperature: $+125 \pm 2^{\circ}\text{C}$ 2. Time: 1000 hours 3. Measured at room temperature after placing for 24 ± 2 hours
Board Flex	Inductance change: Within $\pm 10\%$ Without distinct damage in appearance	1. Run through IR reflow for 2 times; 2. Place the 100mm X 40mm board into a fixture similar to the one shown in below Figure with the component facing down 3. The apparatus shall consist of mechanical means to apply a force which will bend the board (D) x = 2 mm minimum. 4. The duration of the applied forces shall be 60 ± 5 sec. The force is to be applied only once to the board. 

Terminal
Strength

No removal or split of the termination or other defects shall occur.

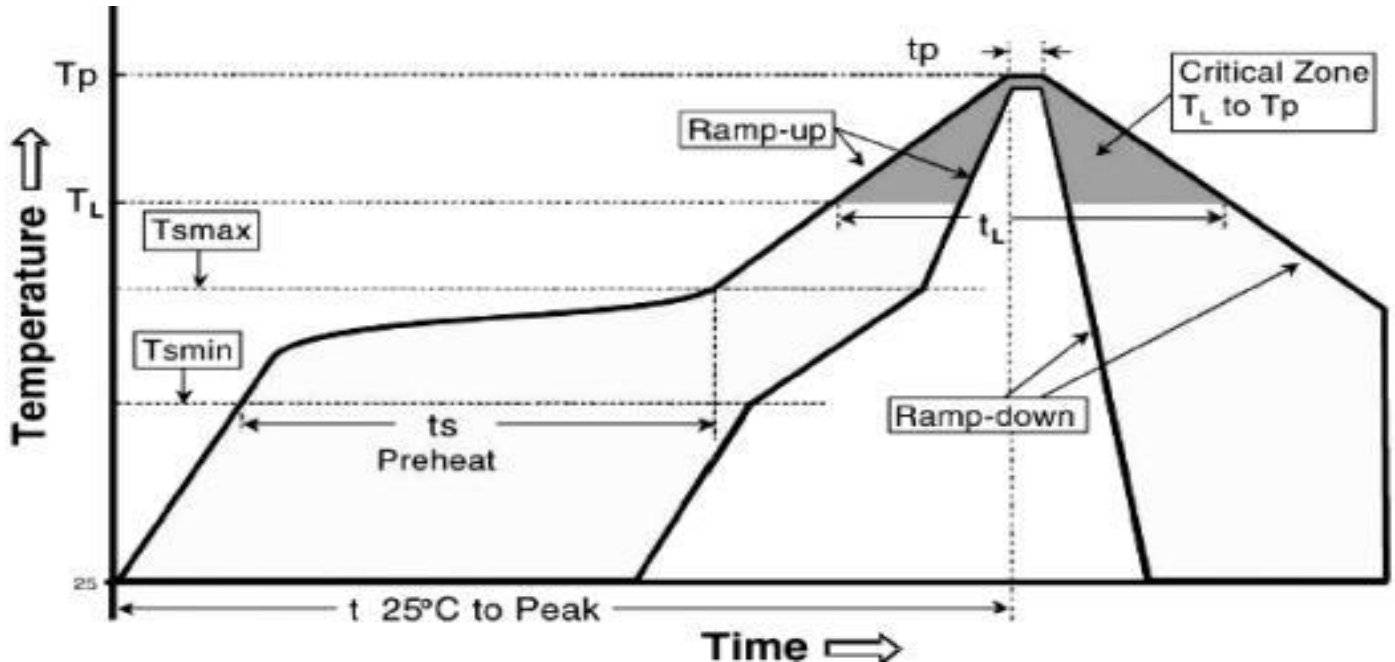
- 1、The test samples shall be soldered to the board
- 2、Push the product vertically from the side of the sample using the thrust tester.
- 3、Automotive electronics: 17.7N, 60S±1s, X , Ydirect.



● Soldering Condition

(This is for recommendation, please customer perform adjustment according to actual application)

Recommend Reflow Soldering Profile : (solder : Sn96.5 / Ag3 / Cu0.5)



Profile Feature	Lead (Pb)-Free solder
Preheat:	
Temperature Min (T _{Smin})	150°C
Temperature Max (T _{Smax})	200°C
Time (T _{Smin} to T _{Smax}) (ts)	60 - 120 seconds
Average ramp-up rate: (Ts max to Tp)	3°C / second max.
Time maintained above :	
Temperature (T _L)	217°C
Time (t _L)	60- 150 seconds
Peak Temperature (Tp)	260°C
Time within $\begin{matrix} +0 \\ -5 \end{matrix}$ °C of actual peak Temperature (tp) ²	10 seconds
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8minutes max.

Allowed Re-flow times : 2 times

Remark : To avoid discoloration phenomena of chip on terminal electrodes, please use N2 Re-flow furnace .