

模压式贴片功率电感—AMP 系列

Molded SMD Power Inductor—AMP Series



工作温度

Operating Temp

- ◆ -55°C ~ +150°C (Including self-heating)

特征

Features

- ◆ 铁合金材料, 高通流, 低损耗
- ◆ 闭合磁路设计, 漏磁干扰小
- ◆ 无卤, 符合 RoHS 标准
- ◆ 满足 AEC-Q200 要求
- ◆ Metal material for large current and low loss
- ◆ Closed magnetic circuit design reduces leakage flux
- ◆ Halogen free, RoHS compliant
- ◆ AEC-Q200 qualified

用途

Applications

- ◆ ADAS, 信息娱乐系统
- ◆ LED 灯
- ◆ 安全气囊
- ◆ 车联网
- ◆ ADAS, Infotainment system
- ◆ LED lighting
- ◆ Airbag
- ◆ Internet of vehicle

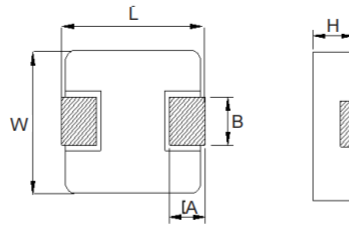
产品型号

Product Identification

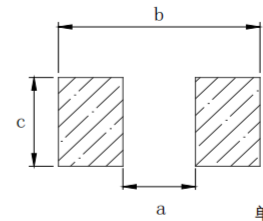
1	2	3	4	5	6	7
AMP	0503	H	3R3	M	T	□□□

1	2
分类 Type	外形尺寸 (L×W) [mm] External Dimensions (L×W) [mm]
AMP	模压贴片功率电感 Molded SMD Power Inductor
3	
特性类别 Feature Type	
H	H Type
4	
公称电感量 Nominal Inductance	
例子 Example	感值 Nominal Value
3R3	3.3μH
100	10μH
5	
感量精度 Inductance Tolerance	
M	±20%
6	
包装 Packing	
T	编带 Tape & Reel
7	
设计代码 Design Code	
□□□	Standard product is blank

外观尺寸 Shape and Dimensions



推荐焊盘 Recommended Land Pattern



单位 Unit: mm

系列 Series	L	W	H	A	B	a	b	c
AMP0402H	4.4±0.4	4.2±0.2	1.8±0.2	0.8±0.2	2.0±0.3	2.2ref.	5.2ref.	2.3ref.
AMP0503H	5.6±0.4	5.2±0.2	2.8±0.2	1.2±0.2	2.2±0.3	2.2ref.	6.4ref.	2.5ref.
AMP0603H	7.0±0.3	6.6±0.2	2.8±0.2	1.6±0.3	3.0±0.3	3.0ref.	8.0ref.	3.5ref.
AMP0605H	7.0±0.3	6.6±0.2	4.8±0.2	1.6±0.3	3.0±0.3	3.0ref.	8.0ref.	3.5ref.
AMP0703H	7.6±0.5	7.0±0.4	2.8±0.2	2.0±0.3	3.0±0.3	3.0ref.	8.6ref.	3.5ref.
AMP0705H	7.6±0.5	7.0±0.4	5.2±0.2	2.0±0.3	3.0±0.3	3.0ref.	8.6ref.	3.5ref.
AMP0804H	8.8±0.4	8.2±0.3	3.8±0.2	Refer to remarks	Refer to remarks	4.0ref.	9.5ref.	5.5ref.
AMP1004H	11.0±0.5	10.0±0.3	3.8±0.2	2.0±0.5	3.0±0.3	5.8ref.	12.0ref.	3.5ref.
AMP1005H	11.0±0.5	10.0±0.3	5.2±0.2	2.2±0.5	4.5±0.3	5.8ref.	12.0ref.	5.0ref.
AMP1006H	11.0±0.5	10.0±0.3	6.3±0.2	2.2±0.5	4.5±0.3	5.8ref.	12.0ref.	5.0ref.
AMP1204H	13.5±0.5	12.6±0.3	4.3±0.2	2.0±0.5	4.7±0.3	8.3ref.	14.5ref.	5.5ref.
AMP1205H	13.5±0.5	12.6±0.3	4.8±0.2	2.0±0.5	Refer to remarks	8.3ref.	14.5ref.	5.5ref.
AMP1206H	13.5±0.5	12.6±0.3	6.2±0.3	2.0±0.5	Refer to remarks	8.3ref.	14.5ref.	5.5ref.
AMP1707H	17.2±0.5	17.0±0.30	6.9±0.3	2.5±0.5	12.0±0.3	11.0ref.	18.2ref.	12.8ref.

Remarks

系列 Series	D	E	Inductance
AMP0804H	1.6±0.3	3.0±0.5	70N/R10
	1.4±0.3	5.0±0.3	R22/R33/R47/R56/R68/R82/1R0/1R5/1R8/2R2/3R3/4R7/5R6/6R8/8R2/100/150/220
AMP1205H	2.0±0.5	3.8±0.5	R22/R33/R68/R82/1R0/1R5/2R2
		5.0±0.3	3R3/4R7/6R8/8R2/100/150/220/330/470
AMP1206H	2.0±0.5	3.8±0.5	R47/R68/1R0/1R5
		5.0±0.3	2R2/3R3/4R7/5R6/6R8/8R2/100/120/150/220/330/470/680/820/101

规格特性 Specifications

AMP0402H Series

型号 Part Number	电感值 Inductance	直流电阻 DC Resistance		饱和电流 Saturation Current		温升电流 Heat Rating Current	耐压值 Withstanding Voltage
	100KHz/1V	Max.	Typ.	Max.	Typ.	Typ.	Typ.
单位 Units	μH	mΩ		A		A	V _{DC}
符号 Symbol	L	DCR		Isat		I _{rms}	/
AMP0402HR10MT	0.10±20%	4.0	3.3	22	27	15	60
AMP0402HR22MT	0.22±20%	7.0	6.0	17	22	12	
AMP0402HR33MT	0.33±20%	11	8.0	9.0	12	10	
AMP0402HR47MT	0.47±20%	14	9.4	8.0	10	9.0	
AMP0402HR56MT	0.56±20%	16	12	7.5	9.4	7.8	
AMP0402HR68MT	0.68±20%	18	12.6	7.4	9.2	7.8	
AMP0402H1R0MT	1.0±20%	27	22	6.0	7.5	6.0	
AMP0402H1R2MT	1.2±20%	28	24	5.8	7.3	5.8	
AMP0402H1R5MT	1.5±20%	46	31	5.7	7.1	5.2	
AMP0402H2R2MT	2.2±20%	58	48	5.6	7.0	4.2	
AMP0402H3R3MT	3.3±20%	87	70	3.4	4.2	3.4	
AMP0402H4R7MT	4.7±20%	105	90	2.4	3.0	3.2	
AMP0402H5R6MT	5.6±20%	170	134	2.3	2.8	2.5	
AMP0402H6R8MT	6.8±20%	175	137	2.0	2.5	2.4	
AMP0402H100MT	10±20%	282	235	1.8	2.3	1.8	

规格特性 Specifications

AMP0503H Series

型号 Part Number	电感值 Inductance	直流电阻 DC Resistance		饱和电流 Saturation Current		温升电流 Heat Rating Current	耐压值 Withstanding Voltage
	100KHz/1V	Max.	Typ.	Max.	Typ.	Typ.	Typ.
单位 Units	μH	mΩ		A		A	V _{DC}
符号 Symbol	L	DCR		Isat		Irms	/
AMP0503HR10MT	0.10±20%	3	2.6	26	30	18	60
AMP0503HR15MT	0.15±20%	3.8	3.2	20	25	16	
AMP0503HR20MT	0.20±20%	4.2	3.6	19	24	14	
AMP0503HR22MT	0.22±20%	4.2	3.6	19	24	14	
AMP0503HR33MT	0.33±20%	5.5	4.8	14.4	18	13	
AMP0503HR47MT	0.47±20%	8.5	7.0	12	15	11	
AMP0503HR68MT	0.68±20%	12	10	10	13	9.0	
AMP0503H1R0MT	1.0±20%	14	11	9.6	12	8.5	
AMP0503H1R2MT	1.2±20%	16	13.6	7.6	9.5	8.0	
AMP0503H1R5MT	1.5±20%	25	17	7.2	9.0	7.2	
AMP0503H2R2MT	2.2±20%	29	23	5.6	7.0	6.4	
AMP0503H3R3MT	3.3±20%	38	30	4.8	6.0	5.5	
AMP0503H4R7MT	4.7±20%	60	54	3.7	4.6	4.0	
AMP0503H6R8MT	6.8±20%	90	81	2.9	3.6	3.2	
AMP0503H8R2MT	8.2±20%	115	103	2.8	3.5	3.0	
AMP0503H100MT	10±20%	125	112	2.8	3.5	2.8	
AMP0503H150MT	15±20%	170	153	2.0	2.2	2.0	

AMP0603H Series

型号 Part Number	电感值 Inductance	直流电阻 DC Resistance		饱和电流 Saturation Current		温升电流 Heat Rating Current	耐压值 Withstanding Voltage
	100KHz/1V	Max.	Typ.	Max.	Typ.	Typ.	Typ.
单位 Units	μH	mΩ		A		A	V _{DC}
符号 Symbol	L	DCR		Isat		Irms	/
AMP0603H50NMT	0.05±20%	0.68	0.55	56	69	32	60
AMP0603HR10MT	0.10±20%	1.7	1.4	52	65	28	
AMP0603HR15MT	0.15±20%	2.1	1.8	45	55	24	
AMP0603HR22MT	0.22±20%	3	2.6	27.2	34	20	
AMP0603HR33MT	0.33±20%	3.5	3	20	25	18.5	
AMP0603HR47MT	0.47±20%	4.1	3.5	16	20	18	
AMP0603HR56MT	0.56±20%	4.5	3.8	14.4	18	16.5	
AMP0603HR68MT	0.68±20%	5.8	5	13.6	17	15	
AMP0603HR82MT	0.82±20%	6.7	5.7	12.8	16	13	
AMP0603H1R0MT	1.0±20%	8	6.8	12	15	11.5	
AMP0603H1R5MT	1.5±20%	12.1	10	9.6	12	10	
AMP0603H2R2MT	2.2±20%	15	13	9.2	11.6	9.5	
AMP0603H3R3MT	3.3±20%	22	19	7.6	9.5	7.0	
AMP0603H4R7MT	4.7±20%	33	28	7.2	9.0	6.0	
AMP0603H5R6MT	5.6±20%	44	38	6.4	8.0	5.2	
AMP0603H6R8MT	6.8±20%	48	41	6.0	7.6	5.0	
AMP0603H8R2MT	8.2±20%	68	58	4.4	5.5	4.2	
AMP0603H100MT	10±20%	70	60	4.4	5.5	4.0	
AMP0603H150MT	15±20%	120	100	3.2	4.0	3.0	
AMP0603H220MT	22±20%	170	145	2.8	3.5	2.5	

规格特性 Specifications

AMP0605H Series

型号 Part Number	电感值 Inductance	直流电阻 DC Resistance		饱和电流 Saturation Current		温升电流 Heat Rating Current	耐压值 Withstanding Voltage
	100KHz/1V	Max.	Typ.	Max.	Typ.	Typ.	Typ.
单位 Units	μH	mΩ		A		A	V _{DC}
符号 Symbol	L	DCR		Isat		I _{rms}	/
AMP0605HR47MT	0.47±20%	3.9	3.3	16.8	21	18	60
AMP0605HR68MT	0.68±20%	4.5	3.8	14.4	18	16.5	
AMP0605H1R0MT	1.0±20%	6.6	5.6	12.8	16	13	
AMP0605H1R5MT	1.5±20%	10	8.5	10.4	13	10.5	
AMP0605H2R2MT	2.2±20%	12.5	11	8.8	11	9.0	
AMP0605H3R3MT	3.3±20%	22	19	8.0	10	7.5	
AMP0605H4R7MT	4.7±20%	29	25	7.7	9.6	6.0	
AMP0605H6R8MT	6.8±20%	41	35	6.6	8.2	5.8	
AMP0605H8R2MT	8.2±20%	48	41	6.4	8.0	5.5	
AMP0605H100MT	10±20%	53	45	6.0	7.5	4.8	
AMP0605H150MT	15±20%	90	77	3.2	4.0	3.2	
AMP0605H220MT	22±20%	140	119	3.1	3.9	2.8	

AMP0703H Series

型号 Part Number	电感值 Inductance	直流电阻 DC Resistance		饱和电流 Saturation Current		温升电流 Heat Rating Current	耐压值 Withstanding Voltage
	100KHz/1V	Max.	Typ.	Max.	Typ.	Typ.	Typ.
单位 Units	μH	mΩ		A		A	V _{DC}
符号 Symbol	L	DCR		Isat		I _{rms}	/
AMP0703H1R0MT	1.0±20%	6.6	5.6	17.6	22	14	60
AMP0703H1R5MT	1.5±20%	10	8.4	15.2	19	11	
AMP0703H2R2MT	2.2±20%	16	13	12	15	9	
AMP0703H3R3MT	3.3±20%	23	19	10.4	13	7.5	
AMP0703H4R7MT	4.7±20%	41	35	8.8	11	5.6	
AMP0703H6R8MT	6.8±20%	44	37	6.8	8.5	5.2	
AMP0703H100MT	10±20%	68	59	5.3	6.6	4.2	

AMP0705H Series

型号 Part Number	电感值 Inductance	直流电阻 DC Resistance		饱和电流 Saturation Current		温升电流 Heat Rating Current	耐压值 Withstanding Voltage
	100KHz/1V	Max.	Typ.	Max.	Typ.	Typ.	Typ.
单位 Units	μH	mΩ		A		A	V _{DC}
符号 Symbol	L	DCR		Isat		I _{rms}	/
AMP0705H1R0MT	1.0±20%	4.8	4.4	20	25	15.8	60
AMP0705H1R5MT	1.5±20%	7.0	5.8	17	21	13.6	
AMP0705H2R2MT	2.2±20%	11.0	9.2	15	19	10.8	
AMP0705H3R3MT	3.3±20%	16.6	13.8	13	17	8.9	
AMP0705H4R7MT	4.7±20%	21.6	18.8	10	13	7.6	
AMP0705H6R8MT	6.8±20%	27.5	23.9	8.8	11	6.8	
AMP0705H8R2MT	8.2±20%	34.8	29.5	8.2	10.2	6.0	
AMP0705H100MT	10±20%	42.0	36.0	8.0	10	5.6	
AMP0705H150MT	15±20%	72.5	61.4	5.5	6.9	4.2	
AMP0705H220MT	22±20%	85.2	71.0	3.6	4.6	3.6	
AMP0705H330MT	33±20%	132	110	4.2	5.2	3.2	

规格特性 Specifications

AMP0804H Series

型号 Part Number	电感值 Inductance	直流电阻 DC Resistance		饱和电流 Saturation Current		温升电流 Heat Rating Current	耐压值 Withstanding Voltage
	100KHz/1V	Max.	Typ.	Max.	Typ.	Typ.	Typ.
单位 Units	μH	mΩ		A		A	V _{DC}
符号 Symbol	L	DCR		Isat		Irms	/
AMP0804H70NMT	0.07±20%	0.6	0.5	60	78	51	60
AMP0804HR10MT	0.10±20%	0.7	0.55	53	65	46	
AMP0804HR22MT	0.22±20%	1.8	1.6	52	60	28.1	
AMP0804HR33MT	0.33±20%	2.4	2.1	40	45	24.2	
AMP0804HR47MT	0.47±20%	2.8	2.5	36	42	22.6	
AMP0804HR56MT	0.56±20%	3.2	2.8	23	26	22	
AMP0804HR68MT	0.68±20%	3.8	3.4	21	24	21	
AMP0804HR82MT	0.82±20%	4.4	3.9	18	21	18	
AMP0804H1R0MT	1.0±20%	4.6	4.1	16	19	16	
AMP0804H1R5MT	1.5±20%	7	5.8	14	17	14	
AMP0804H1R8MT	1.8±20%	9	7.5	13	15	12.5	
AMP0804H2R2MT	2.2±20%	11.4	10.2	12	14	12	
AMP0804H3R3MT	3.3±20%	15	13.5	11	12	10	
AMP0804H4R7MT	4.7±20%	22.3	18.6	10	11	8.2	
AMP0804H5R6MT	5.6±20%	30	27	10	11	7.1	
AMP0804H6R8MT	6.8±20%	32.4	27	8	9	6.8	
AMP0804H8R2MT	8.2±20%	46	36.6	7.7	8.7	5.9	
AMP0804H100MT	10.0±20%	59	48	7	9.5	5.1	
AMP0804H150MT	15.0±20%	71	63.5	4.9	5.5	4.8	
AMP0804H220MT	22.0±20%	103	86	4.5	5	4.2	

AMP1004H Series

型号 Part Number	电感值 Inductance	直流电阻 DC Resistance		饱和电流 Saturation Current		温升电流 Heat Rating Current	耐压值 Withstanding Voltage
	100KHz/1V	Max.	Typ.	Max.	Typ.	Typ.	Typ.
单位 Units	μH	mΩ		A		A	V _{DC}
符号 Symbol	L	DCR		Isat		Irms	/
AMP1004H80NMT	0.080±20%	0.56	0.45	65	80	44	100
AMP1004HR10MT	0.10±20%	0.56	0.45	65	80	44	
AMP1004HR15MT	0.15±20%	0.65	0.55	60	75	43	
AMP1004HR22MT	0.22±20%	1.00	0.85	48	60	35	
AMP1004HR30MT	0.30±20%	1.10	0.94	36	45	33	
AMP1004HR33MT	0.33±20%	1.10	0.94	36	45	33	
AMP1004HR36MT	0.36±20%	1.20	1.02	36	45	32	
AMP1004HR47MT	0.47±20%	1.70	1.45	32	40	28	
AMP1004HR56MT	0.56±20%	1.80	1.53	26.4	33	26	
AMP1004HR68MT	0.68±20%	2.20	1.9	24	30	24.5	
AMP1004HR80MT	0.80±20%	2.70	2.30	23.2	29	22	
AMP1004H1R0MT	1.0±20%	3.30	2.81	22.4	28	20	
AMP1004H1R5MT	1.5±20%	4.20	3.57	19.2	24	18	
AMP1004H2R2MT	2.2±20%	7.5	6.5	14.4	18	13.5	
AMP1004H3R3MT	3.3±20%	11.8	10.0	12.8	16	10.5	
AMP1004H4R7MT	4.7±20%	20.0	17.0	10.4	13	8.5	
AMP1004H6R8MT	6.8±20%	25.0	21.3	9.6	12	7.5	
AMP1004H100MT	10±20%	30.0	25.5	6.8	8.5	6.9	
AMP1004H150MT	15±20%	45.0	38.3	5.6	7.0	5.6	
AMP1004H220MT	22±20%	66.0	56.1	5.0	6.2	4.5	
AMP1004H330MT	33±20%	100	87	3.8	4.8	3.6	
AMP1004H470MT	47±20%	145	123	3.1	3.5	3.1	
AMP1004H680MT	68±20%	195	166	2.4	3.0	2.6	
AMP1004H820MT	82±20%	285	242	2.3	2.8	2.3	

规格特性

Specifications

AMP1005H Series

型号 Part Number	电感值 Inductance	直流电阻 DC Resistance		饱和电流 Saturation Current		温升电流 Heat Rating Current	耐压值 Withstanding Voltage
	100KHz/1V	Max.	Typ.	Max.	Typ.	Typ.	Typ.
单位 Units	μH	mΩ		A		A	V _{DC}
符号 Symbol	L	DCR		Isat		Irms	/
AMP1005HR68MT	0.68±20%	2.45	2.08	30	36	27	100
AMP1005H1R0MT	1.0±20%	2.88	2.44	27	32	25	
AMP1005H1R5MT	1.5±20%	4.37	3.7	23	27	21	
AMP1005H2R2MT	2.2±20%	4.9	4.1	20	25	20	
AMP1005H2R5MT	2.5±20%	6.8	5.2	18	22	16	
AMP1005H3R3MT	3.3±20%	7.4	6.0	16	20	15	
AMP1005H4R7MT	4.7±20%	10	8.4	14	18	13.5	
AMP1005H5R6MT	5.6±20%	12.6	10.0	13	17	12	
AMP1005H6R8MT	6.8±20%	15	12	12.5	15.6	11	
AMP1005H8R2MT	8.2±20%	20.7	16.5	11.1	13	9	
AMP1005H100MT	10.0±20%	26	22	10	13	8.4	
AMP1005H150MT	15±20%	31	26	7.5	9.2	7.6	
AMP1005H220MT	22±20%	53	45	7.0	8.8	5.8	
AMP1005H330MT	33±20%	78	66	6.1	7.6	4.8	
AMP1005H470MT	47±20%	104	88	4.8	6.0	4.0	

AMP1006H Series

型号 Part Number	电感值 Inductance	直流电阻 DC Resistance		饱和电流 Saturation Current		温升电流 Heat Rating Current	耐压值 Withstanding Voltage
	100KHz/1V	Max.	Typ.	Max.	Typ.	Typ.	Typ.
单位 Units	μH	mΩ		A		A	V _{DC}
符号 Symbol	L	DCR		Isat		Irms	/
AMP1006H1R0MT	1.0±20%	3.0	2.6	23	29	21	100
AMP1006H1R5MT	1.5±20%	3.9	3.3	20	26	19.5	
AMP1006H2R2MT	2.2±20%	5.5	4.4	19	25	18	
AMP1006H3R3MT	3.3±20%	7.2	6	18	22	15	
AMP1006H4R7MT	4.7±20%	9.0	7.5	15	20	15	
AMP1006H6R8MT	6.8±20%	13	10.5	14	18	11	
AMP1006H100MT	10±20%	28	22	10	12	9	
AMP1006H150MT	15±20%	37	31	8.5	10.5	6.5	
AMP1006H220MT	22±20%	49	41.0	6.5	8.2	5.5	

AMP1204H Series

型号 Part Number	电感值 Inductance	直流电阻 DC Resistance		饱和电流 Saturation Current		温升电流 Heat Rating Current	耐压值 Withstanding Voltage
	100KHz/1V	Max.	Typ.	Max.	Typ.	Typ.	Typ.
单位 Units	μH	mΩ		A		A	V _{DC}
符号 Symbol	L	DCR		Isat		Irms	/
AMP1204HR10MT	0.10±20%	0.59	0.40	80	90	43	100

规格特性 Specifications

AMP1205H Series

型号 Part Number	电感值 Inductance	直流电阻 DC Resistance		饱和电流 Saturation Current		温升电流 Heat Rating Current	耐压值 Withstanding Voltage
	100KHz/1V	Max.	Typ.	Max.	Typ.	Typ.	Typ.
单位 Units	μH	mΩ		A		A	V _{DC}
符号 Symbol	L	DCR		Isat		Irms	/
AMP1205HR22MT	0.22±20%	0.70	0.60	70	75	50	100
AMP1205HR33MT	0.33±20%	1.26	0.70	65	70	40	
AMP1205HR68MT	0.68±20%	1.55	1.33	40	48	33	
AMP1205HR82MT	0.82±20%	1.67	1.37	31.2	39	30	
AMP1205H1R0MT	1.0±20%	2.2	1.8	28	35	26	
AMP1205H1R5MT	1.5±20%	3.2	2.8	26.4	33	23	
AMP1205H2R2MT	2.2±20%	4.70	4.00	24	28	17	
AMP1205H3R3MT	3.3±20%	7.00	5.95	20.8	26	14	
AMP1205H4R7MT	4.7±20%	9.00	7.65	16	20	12.5	
AMP1205H6R8MT	6.8±20%	18.0	15.3	15.2	19	9.5	
AMP1205H8R2MT	8.2±20%	20.0	17.0	14.4	18	9.0	
AMP1205H100MT	10±20%	22.0	18.7	12	15	8.2	
AMP1205H150MT	15±20%	33.0	28.1	8.8	11	7.0	
AMP1205H220MT	22±20%	50.0	43.0	8.0	10	5.5	
AMP1205H330MT	33±20%	68.0	58.0	6.4	8	4.4	
AMP1205H470MT	47±20%	88.0	75.0	4.8	6	3.5	

AMP1206H Series

型号 Part Number	电感值 Inductance	直流电阻 DC Resistance		饱和电流 Saturation Current		温升电流 Heat Rating Current	耐压值 Withstanding Voltage
	100KHz/1V	Max.	Typ.	Max.	Typ.	Typ.	Typ.
单位 Units	μH	mΩ		A		A	V _{DC}
符号 Symbol	L	DCR		Isat		Irms	/
AMP1206HR47MT	0.47±20%	1.3	1.0	62	76	45	100
AMP1206HR68MT	0.68±20%	1.8	1.4	44	55	36.5	
AMP1206H1R0MT	1.0±20%	2.3	1.8	34	42	34	
AMP1206H1R5MT	1.5±20%	2.47	2.1	27	34	27	
AMP1206H2R2MT	2.2±20%	4.2	3.6	22	25	22	
AMP1206H3R3MT	3.3±20%	6.5	5.5	19.2	24	18	
AMP1206H4R7MT	4.7±20%	8.6	7.3	18.5	22	16	
AMP1206H5R6MT	5.6±20%	10	8.5	18	21	15	
AMP1206H6R8MT	6.8±20%	11.8	10	17	20	13.5	
AMP1206H8R2MT	8.2±20%	14	12	16	19	12.5	
AMP1206H100MT	10±20%	16.5	12.8	14	17	12	
AMP1206H120MT	12±20%	20	16	13	16	10.8	
AMP1206H150MT	15±20%	26	22	9.5	12	9.5	
AMP1206H220MT	22±20%	37.7	32	8	10	7	
AMP1206H330MT	33±20%	52	44	7.2	9	6	
AMP1206H470MT	47±20%	73	59	5.4	6.8	5.4	
AMP1206H680MT	68±20%	105	90	4.8	6	4.2	
AMP1206H820MT	82±20%	140	120	3.7	4.7	3.5	
AMP1206H101MT	100±20%	160	135	3.5	4.5	3.5	

规格特性 Specifications

AMP1707H Series

型号 Part Number	电感值 Inductance	直流电阻 DC Resistance		饱和电流 Saturation Current		温升电流 Heat Rating Current	耐压值 Withstanding Voltage
	100KHz/1V	Max.	Typ.	Max.	Typ.	Typ.	Typ.
单位 Units	μH	mΩ		A		A	V _{DC}
符号 Symbol	L	DCR		Isat		Irms	/
AMP1707H1R0MT	1.0±20%	1.60	1.30	38	48	40	100
AMP1707H1R5MT	1.5±20%	2.20	1.80	36	45	36	
AMP1707H2R2MT	2.2±20%	2.50	2.13	27.2	34	29	
AMP1707H3R3MT	3.3±20%	3.60	3.10	24	30	23	
AMP1707H4R7MT	4.7±20%	4.75	4.04	22	28	21	
AMP1707H6R8MT	6.8±20%	7.50	6.38	17.6	22	15	
AMP1707H8R2MT	8.2±20%	8.70	7.40	16	20	14	
AMP1707H100MT	10±20%	9.90	8.42	15.2	19	13	
AMP1707H150MT	15±20%	17.0	14.5	11.6	14.5	10	
AMP1707H220MT	22±20%	23.0	19.6	9.2	11.5	8.5	
AMP1707H330MT	33±20%	37.0	31.5	8.0	10	7.0	
AMP1707H470MT	47±20%	47.0	40.0	7.2	9.0	6.0	
AMP1707H680MT	68±20%	76	68	6.4	8.0	4.6	
AMP1707H101MT	100±20%	106	90	4.0	5.0	4.0	

注：※1: 额定电流: Isat(Max.) 或 Irms(Typ.), 以较小数据为准。

※2: 饱和电流: Typ. 值: 电感比初始电感量下降约 30% 时, 所对应的直流电流的大小。

※3: 温升电流: 温度从 20℃ 环境温度上升 40℃ (ΔT) 时, 所对应的直流电流的大小。

在最坏的操作条件下, 零件温度 (环境温度 + 温升) 不应超过 150℃。电路设计、元件放置、PCB 走线尺寸和厚度、气流和其他冷却规定都会影响零件温度。应在最终应用中验证零件温度。

Note: ※1: Rated current: Isat(Max.) or Irms(Typ.), whichever is smaller.

※2: Saturation Current: Typ. Value, DC current at which the inductance drops approximately 30% from its value without current;

※3: Heat Rating Current: DC current that causes an approximate ΔT of 40℃ from 20℃ ambient.

The part temperature (ambient + temp. rise) should not exceed 150℃ under worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.