

繞線型片式電感器 Wire Wound Chip Inductors

Products	实物 图形 Picture	型号 规格 Type	电感量范围 Inductance Range	特性介绍 Description	页码 Page
GE 陶瓷芯系列		GE0402HC	1.0nH~40nH	体积小，适合高密度表面贴装； Min. size, suitable for SMT; 采用端电极结构，很好地抑制了引线引起的寄生元件效应，具有高可靠性； Using terminal electrode structure to restrain the parasitic component effect quite caused by lead; 更好的频率特性。 Best frequency special property.	1~13 页
		GE0603UC	1.6nH~390nH		
		GE0805UC	2.2nH~2.2μH		
		GE1008UC	3.9nH~8.2μH		
		GE1210HC	3.9nH~8.2μH		
GE 铁氧体芯系列		GE0805UF	1.0μH~22μH		
		GE1008IF	1.0μH~220μH		
		GE1210IF	1.0μH~470μH		
		GE1812IF	1.0μH~1mH		

功率电感器 Power Inductors

产品 Products	实物 图形 Picture	型号 规格 Type	电感量范围 Inductance Range	特性介绍 Description	页码 Page
CD 系列		CD32	10μH~390μH	多种不同尺寸结构适合高密度表面贴装。 Various high power surface mountable type inductors are superior to high saturation	14~18 页
		CD43	1.0μH~68μH		
		CD54	10μH~220μH		
		CD73	10μH~330μH		
		CD75	10μH~470μH		
		CD104	10μH~560μH		
		CD105	10μH~820μH		
DBO(S)系列		DBO1608	1.0μH~1mH	大电流 High saturation current PBS 系列屏蔽结构 PBS type with magnetic shielded 表面贴装 SMT type	19~22 页
		DBO3316	1.0μH~1mH		
		DBO5022	1.0μH~1mH		
		DBS1608	1.0μH~10mH		
		DBS3316	1.0μH~47μH		
		DBS5022	10μH~1mH		
DMS 系列		DMS73	10μH~1mH	大电流 High saturation current 屏蔽结构 Magnetic shielded 表面贴装 SMT type	23~27 页
		DMS74	10μH~1mH		
		DMS104R	1.5μH~330μH		
		DMS124	3.9μH~330μH		
		DMS125	1.3μH~1mH		
		DMS127	1.2μH~1mH		
DLBS 系列		DLBS6028	10μH~390μH	超薄 Low profile 屏蔽结构 Magnetic shielded 表面贴装 SMT type	28~30 页
		DLBS7030	1.0μH~1mH		
		DLBS7045	10μH~1mH		
		DLBS10145	10μH~1.5mH		

公司及产品介绍

肇庆国炬电子有限公司是一家生产经营 SMD 系列电子元器件的专业化高科技公司。生产基地位于中国广东省肇庆市, 厂房面积 6000 平方米, 现有员工 412 人, 其中高级职称的技术人员 52 人, 拥有自主知识产权和关键技术研发能力。

公司自进入电子元器件行业以来, 坚持走品牌发展之路, 实现了跨越式的发展。目前拥有年产绕线片式电感 10 亿只和片式功率电感 3 亿只的生产能力, 其绕线片式电感等产品的制程能力已做到 0402, 0603, 0805, 1210, 1812。受到多家行业内知名公司的青睐和认可如: 康佳、华为、索尼、中兴通讯等。

今天的国炬人不仅仅只在追求完善产品结构, 提高产品质量竞争力的完美, 而是努力提高服务竞争力以满足广大客户的需求。我们将秉承“对内直供, 对外贸易”的经营方针, 坚持“诚信守责, 敢想敢干, 活学活用, 高效简洁”的经营理念, 本着“你赚钱, 我发展”合作精神和“细微见品质, 服务创辉煌”的服务理念把国炬电子和广大客户的利益紧密地联结在一起。以质量生存, 以创新谋发展, 让我们携手合作、共创财富、共同发展。

公司生产的产品有:

绕线片式电感系列: 0402、0603、0805、1210、1812

功率片式电感系列:

CD 系列: CD32、CD43、CD54、CD73、CD75、CD104、CD105

DB 系列: DB01608、DB03316、DB05022、DBS1608、DBS3316、DBS5022

DMS 系列: DMS73、DMS74、DMS104R、DMS124、DMS125、DMS127

DLBS 系列: DLBS6028、DLBS7030、DLBS7045、DLBS10145

代理经销的品牌有:

风华高科全系列片式电感、磁珠、片式电容、片式电阻、二三极管等

台湾国巨、华科片式电容、片式电阻等

Company and product introduction

Zhaoqing Gorge Electronic Co.,Ltd. is a specialized high-tech company which does business with SMD series electronic components. Our factory is located in Shihing City, Guangdong Province, China. The plant area is about 6,000 square meters, and a staff of 422, including 52 senior technical personnel. We have independent intellectual property rights and key technologies R & D capabilities.

Since entering the electronic components field, we adhere to brand development, and achieve great-leap-forward development. Currently we have an annual output capability of winding chip inductors 1 billion and power chip inductors 600 million, the winding chip inductors have types of 0402, 0603, 0805, 1210, 1812. Our products are welcomed by a number of well-known companies, such as: Konka, Hua Xia, Huawei, Sony, ZTE, etc.

Gorge today is not just in the pursuit of improved product mix, improve product quality and competitiveness, but strive to improve the competitiveness of services to meet the needs of our customers. We will be persisting in "internal direct supply, external trade" principle, adhere to "honest and responsible, daring in thinking and action, learn and use, efficient and simple" business philosophy, a "you earn money, I develop" cooperation spirit and the "subtle from quality, service brilliant" service concept to linked us and customers' interests closely together. Survival depend on quality, innovation to development, let us work together to create wealth and common development.

Our products are:

Winding Chip Inductors Series: 0402, 0603, 0805, 1210, 1812

Power Chip Inductors Series:

CD Series: CD32, CD43, CD54, CD73, CD75, CD104, CD105

DB Series: DB01608, DB03316, DB05022, DBS1608, DBS3316, DBS5022

DMS Series: DMS73, DMS74, DMS104R, DMS124, DMS125, DMS127

DLBS Series: DLBS6028, DLBS7030, DLBS7045, DLBS10145

Cooperation brand are:

Fenghua Hi-Tech entire series inductor, bead, chip capacitors, chip resistors, two transistors and other

Yageo Taiwan, China Division chip capacitors, chip resistors, etc.

绕线型片式电感器 Wire Wound Chip Inductor



绕线型片式电感器是对传统电感器进行技术改进, 缩小体积, 把引线改为适合表面贴装的端电极结构, 是采用高精度的线圈骨架及高超的绕线技术相结合的完美结合物。

Wire wound chip inductor is a perfect combine by means of combining high precision coil framework with superb wound technology. Comparable with traditional inductor, it is improved technology, reduced volume and changed the lead into a kind of terminal electrode structure suitable for SMT.

特征 FEATURES

- 体积小, 适合高密度表面贴装
- 采用端电极结构, 很好地抑制了引线引起的寄生元件效应, 具有高可靠性
- 优良的焊接性和耐焊性
- 更好的频率特性和更强的抗干扰能力
- Minature size, suitable for SMT
- Using terminal electrode structure to restrain the parasitic component effect quite caused by lead;
- Excellent in solderability and heat resistance;
- Best frequency special property and intense ability to resist interference.

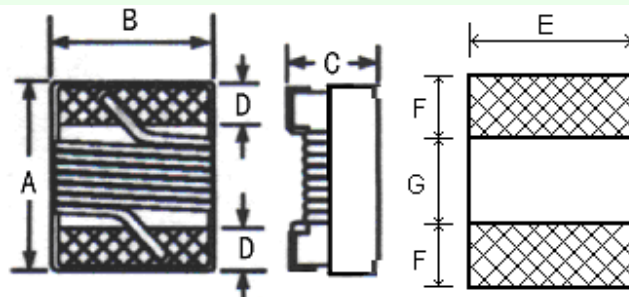
应用 APPLICATIONS

- 移动通信、PDA
- 各种高频回路
- 抑制各种高频杂波
- Portable communication equipment and PDA
- High speed electronic device
- Used for radiation high speed noise suppression

产品规格型号表示方法 ORDERING CODE

GE	0805	UC	068	J	G	T
①	②	③	④	⑤	⑥	⑦
① 产品代号 Code	② 规格尺寸 Dimensions (L×W) (mm)	③ 材料 Material	④ 感量(nH) Inductance	⑤ 误差(%) Tolerance	⑥ 电极 Terminal	⑦ 包装方式 Packaging Style
GE	0402 1.0×0.5	UC 陶瓷芯	1N0 1.0	F ±1	G GOLD	T 卷带盘装
	0603 1.6×0.8	HC Ceramic	010 10	G ±2	S TIN	Tape&Reel
	0805 2.0×1.2	UF 铁氧体芯	R10 100	J ±5		B 散装 Bulk
	1008 2.5×2.0	IF Ferrite	1R0 1000	K ±10		
	1210 3.2×2.5		100 10000	M ±20		
	1812 4.5×3.2		101 100000			

外形尺寸 Dimensions



单位(Unit): mm/inch

Part NO.	A (Max.)	B (Max.)	C (Max.)	D	E	F	G
0402	1.30 (.051)	0.70 (.028)	0.70 (.028)	0.23 (.009)	0.64 (.025)	0.40 (.016)	0.64 (.025)
0603	1.78 (.070)	1.10 (.043)	0.95 (.037)	0.30 (.012)	1.02 (.04)	0.64 (.025)	0.64 (.025)
0805	2.30 (.091)	1.70 (.067)	1.52 (.060)	0.50 (.020)	1.78 (.07)	1.02 (.04)	0.76 (.03)
1008	2.80 (.110)	2.70 (.106)	2.10 (.083)	0.50 (.020)	2.54 (.10)	1.02 (.04)	1.27 (.05)
1210	3.50 (.138)	2.90 (.114)	2.25 (.088)	0.50 (.020)	2.54 (.10)	1.02 (.04)	1.78 (.07)
1812	4.80 (.189)	3.40 (.134)	3.15 (.124)	0.65 (.026)	3.05 (.12)	1.14 (.045)	3.00 (.118)

电性能参数 Electrical Characteristics

0402HC Series

Part Number	Inductance (nH)	Tolerance (%)	Q Min	SRF (MHz) Min	DCR(Ω) Max	Idc (mA) Max
GE0402HC1N0□GT	1.0@250MHz	10	16	>6000	0.045	1360
GE0402HC2N0□GT	2.0@250MHz	10	16	>6000	0.070	1040
GE0402HC2N2□GT	2.2@250MHz	10	19	>6000	0.070	960
GE0402HC3N3□GT	3.3@250MHz	10	19	6000	0.066	840
GE0402HC3N6□GT	3.6@250MHz	10	19	6000	0.066	840
GE0402HC3N9□GT	3.9@250MHz	10	19	5800	0.066	840
GE0402HC5N1□GT	5.1@250MHz	10,5	20	5800	0.083	800
GE0402HC5N6□GT	5.6@250MHz	10,5	20	5800	0.083	760
GE0402HC6N2□GT	6.2@250MHz	10,5	20	5800	0.083	760
GE0402HC7N5□GT	7.5@250MHz	10,5	22	5800	0.104	680
GE0402HC8N2□GT	8.2@250MHz	10,5	22	4400	0.104	680
GE0402HC9N0□GT	9.0@250MHz	10,5	22	4160	0.104	680
GE0402HC011□GT	11@250MHz	10,5,2	24	3680	0.120	640
GE0402HC012□GT	12 @250MHz	10,5,2	24	3600	0.120	640
GE0402HC015□GT	15@250MHz	10,5,2	24	3280	0.172	560
GE0402HC019□GT	19@250MHz	10,5,2	24	3040	0.202	480
GE0402HC023□GT	23@250MHz	10,5,2	24	2720	0.214	400
GE0402HC027□GT	27@250MHz	10,5,2	24	2480	0.298	400
GE0402HC036□GT	36@250MHz	10,5,2	24	2320	0.403	320
GE0402HC040□GT	40@250MHz	10,5,2	24	2240	0.438	320

0603UC Series

Part Number	Inductance (nH)	Tolerance (%)	Q Min	SRF (MHz) Min	DCR(Ω) Max	Idc (mA) Max
GE0603UC1N6□GT	1.6@250MHZ	10	18@250MHZ	12500	0.040	700
GE0603UC1N8□GT	1.8@250MHZ	10	16@250MHZ	12500	0.045	700
GE0603UC2N2□GT	2.2@250MHZ	10	12@250MHZ	10000	0.090	700
GE0603UC3N3□GT	3.3@250MHZ	10	20@250MHZ	5900	0.075	700
GE0603UC3N6□GT	3.6@250MHZ	10,5	22@250MHZ	5900	0.075	700
GE0603UC3N9□GT	3.9@250MHZ	10,5	22@250MHZ	6900	0.080	700
GE0603UC4N3□GT	4.3@250MHZ	10,5	22@250MHZ	5900	0.075	700
GE0603UC4N7□GT	4.7@250MHZ	10,5	20@250MHZ	5800	0.116	700
GE0603UC5N1□GT	5.1@250MHZ	10,5	20@250MHZ	5700	0.120	700
GE0603UC5N6□GT	5.6@250MHZ	10	18@250MHZ	5700	0.200	700
GE0603UC6N8□GT	6.8@250MHZ	10,5	27@250MHZ	5800	0.110	700

Part Number	Inductance (nH)	Tolerance (%)	Q Min	SRF (MHz) Min	DCR(Ω) Max	Idc (mA) Max
GE0603UC7N5□GT	7.5@250MHZ	10,5	28@250MHZ	4800	0.110	700
GE0603UC8N2□GT	8.2@250MHZ	10,5	28@250MHZ	4700	0.120	700
GE0603UC9N5□GT	9.5@250MHZ	10,5	26@250MHZ	5400	0.150	700
GE0603UC010□GT	10@250MHZ	10,5,2	31@250MHZ	4800	0.130	700
GE0603UC012□GT	12@250MHZ	10,5,2	35@250MHZ	4000	0.130	700
GE0603UC015□GT	15@250MHZ	10,5,2	30@250MHZ	4000	0.150	700
GE0603UC018□GT	18@250MHZ	10,5,2	35@250MHZ	3100	0.170	700
GE0603UC022□GT	22@250MHZ	10,5,2	38@250MHZ	3000	0.190	700
GE0603UC027□GT	27@250MHZ	10,5,2	36@250MHZ	2800	0.220	600
GE0603UC033□GT	33@250MHZ	10,5,2	36@250MHZ	2300	0.220	600
GE0603UC036□GT	36@250MHZ	10,5,2	36@250MHZ	2080	0.250	600
GE0603UC039□GT	39@250MHZ	10,5,2	40@250MHZ	2200	0.250	600
GE0603UC043□GT	43@250MHZ	10,5,2	36@250MHZ	2000	0.280	600
GE0603UC047□GT	47@200MHZ	10,5,2	36@200MHZ	2000	0.280	600
GE0603UC056□GT	56@200MHZ	10,5,2	38@200MHZ	1900	0.280	600
GE0603UC068□GT	68@200MHZ	10,5,2	36@200MHZ	1700	0.340	600
GE0603UC075□GT	75@150MHZ	10,5,2	30@150MHZ	1400	0.600	400
GE0603UC082□GT	82@150MHZ	10,5,2	34@150MHZ	1700	0.550	400
GE0603UCR10□GT	100@150MHZ	10,5,2	30@150MHZ	1400	0.630	400
GE0603UCR12□GT	120@150MHZ	10,5,2	32@150MHZ	1300	0.730	300
GE0603UCR15□GT	150@150MHZ	10,5,2	28@150MHZ	990	0.800	280
GE0603UCR18□GT	180@100MHZ	10,5,2	25@100MHZ	990	1.350	240
GE0603UCR20□GT	200@100MHZ	10,5	25@100MHZ	900	1.550	200
GE0603UCR22□GT	220@100MHZ	10,5	25@100MHZ	900	1.600	200
GE0603UCR27□GT	270@100MHZ	10	24@100MHZ	520	1.400	170
GE0603UCR33□GT	330@100MHZ	10	24@100MHZ	500	1.600	160
GE0603UCR39□GT	390@100MHZ	10	24@100MHZ	400	2.200	150

0805UC Series

Part Number	Inductance (nH)	Tolerance (%)	Q Min	SRF (MHz) Min	DCR(Ω) Max	Idc (mA) Max
GE0805UC2N2□GT	2.2@250MHZ	10	50@1500MHZ	8500	0.030	800
GE0805UC2N7□GT	2.7@250MHZ	10,5	50@1500MHZ	8000	0.045	800
GE0805UC3N3□GT	3.3@250MHZ	10	35@1500MHZ	7900	0.090	600
GE0805UC4N7□GT	4.7@250MHZ	10	40@1000MHZ	6000	0.050	600
GE0805UC5N6□GT	5.6@250MHZ	10,5	50@1000MHZ	5500	0.065	600
GE0805UC6N8□GT	6.8@250MHZ	10,5	50@1000MHZ	5500	0.110	600
GE0805UC8N2□GT	8.2@250MHZ	10,5	35@1000MHZ	4700	0.200	600
GE0805UC010□GT	10@250MHZ	10,5,2	50@500MHZ	4200	0.150	600
GE0805UC012□GT	12@250MHZ	10,5,2	50@500MHZ	4000	0.150	600
GE0805UC015□GT	15@250MHZ	10,5	45@500MHZ	3400	0.170	600
GE0805UC018□GT	18@250MHZ	10,5,2	55@500MHZ	3300	0.200	600
GE0805UC022□GT	22@250MHZ	10,5,2	55@500MHZ	2600	0.220	500
GE0805UC027□GT	27@250MHZ	10,5,2	55@500MHZ	2500	0.250	500
GE0805UC033□GT	33@250MHZ	10,5,2	55@500MHZ	2050	0.270	500
GE0805UC039□GT	39@250MHZ	10,5,2	55@500MHZ	2000	0.290	500
GE0805UC047□GT	47@200MHZ	10,5,2	55@500MHZ	1650	0.310	500
GE0805UC056□GT	56@200MHZ	10,5,2	55@500MHZ	1550	0.340	500
GE0805UC068□GT	68@200MHZ	10,5,2	55@500MHZ	1450	0.380	500
GE0805UC075□GT	75@200MHZ	10,5,2	55@500MHZ	1400	0.400	400
GE0805UC082□GT	82@150MHZ	10,5,2	55@500MHZ	1300	0.420	400

Part Number	Inductance (nH)	Tolerance (%)	Q Min	SRF (MHz) Min	DCR(Ω) Max	Idc (mA) Max
GE0805UCR10□GT	100@150MHz	10,5,2	50@500MHz	1200	0.460	400
GE0805UCR12□GT	120@150MHz	10,5,2	45@250MHz	1100	0.510	400
GE0805UCR15□GT	150@100MHz	10,5,2	45@250MHz	920	0.560	400
GE0805UCR18□GT	180@100MHz	10,5	45@250MHz	870	0.640	400
GE0805UCR22□GT	220@100MHz	10,5	40@250MHz	850	1.050	400
GE0805UCR27□GT	270@100MHz	10,5,2	40@250MHz	650	1.100	350
GE0805UCR33□GT	330@100MHz	10,5	40@250MHz	600	1.400	310
GE0805UCR39□GT	390@100MHz	10,5	40@250MHz	560	1.500	290
GE0805UCR47□GT	470@50MHz	10,5	33@100MHz	375	2.000	250
GE0805UCR56□GT	560@25MHz	10,5	23@50MHz	340	1.900	230
GE0805UCR68□GT	680@25MHz	10,5	23@50MHz	300	2.100	190
GE0805UCR75□GT	750@25MHz	10,5	23@50MHz	280	2.120	180
GE0805UCR82□GT	820@25MHz	10,5	23@50MHz	250	2.140	180
GE0805UCR91□GT	910@25MHz	10,5	20@50MHz	220	2.280	180
GE0805UC1R0□GT	1000@25MHz	10,5	20@50MHz	200	2.400	170
GE0805UC1R2□GT	1200@7.9MHz	10,5	18@50MHz	180	2.550	170
GE0805UC1R5□GT	1500@7.9MHz	10,5	18@50MHz	170	2.800	160
GE0805UC1R8□GT	1800@7.9MHz	10,5	18@50MHz	140	3.800	150
GE0805UC2R2□GT	2200@7.9MHz	10,5	16@7.9MHz	50	4.200	150

1008UC Series

Part Number	Inductance (nH)	Tolerance (%)	Q Min	SRF (MHz) Min	DCR(Ω) Max	Idc (mA) Max
GE1008UC3N9□GT	3.9@50MHz	10,5	50@1500MHz	6000	0.035	1000
GE1008UC4N7□GT	4.7@50MHz	10,5	50@1500MHz	6000	0.045	1000
GE1008UC5N6□GT	5.6@50MHz	10,5	30@1000MHz	6000	0.180	1000
GE1008UC8N2□GT	8.2 @50MHz	10,5	50@1000MHz	5000	0.050	1000
GE1008UC010□GT	10@50MHz	10,5,2	50@500MHz	4100	0.080	1000
GE1008UC012□GT	12@50MHz	10,5,2	50@500MHz	3300	0.090	1000
GE1008UC015□GT	15@50MHz	10,5,2	45@500MHz	2500	0.150	1000
GE1008UC018□GT	18@50MHz	10,5,2	50@350MHz	2500	0.110	1000
GE1008UC022□GT	22@50MHz	10,5,2	55@350MHz	2400	0.120	1000
GE1008UC027□GT	27@50MHz	10,5,2	55@350MHz	1600	0.130	1000
GE1008UC033□GT	33@50MHz	10,5,2	60@350MHz	1600	0.140	1000
GE1008UC039□GT	39@50MHz	10,5,2	60@350MHz	1500	0.150	1000
GE1008UC047□GT	47@50MHz	10,5,2	65@350MHz	1500	0.160	1000
GE1008UC056□GT	56@50MHz	10,5,2	65@350MHz	1100	0.180	1000
GE1008UC068□GT	68@50MHz	10,5,2	65@350MHz	1000	0.200	1000
GE1008UC082□GT	82@50MHz	10,5,2	60@350MHz	1000	0.220	1000
GE1008UCR10□GT	100@25MHz	10,5,2	60@350MHz	1000	0.560	650
GE1008UCR12□GT	120@25MHz	10,5,2	60@350MHz	950	0.630	650
GE1008UCR15□GT	150@25MHz	10,5,2	45@100MHz	800	0.700	580
GE1008UCR18□GT	180@25MHz	10,5	45@100MHz	640	0.770	620
GE1008UCR22□GT	220@25MHz	10,5	45@100MHz	620	0.840	500
GE1008UCR27□GT	270@25MHz	10,5,2	45@100MHz	600	0.910	500
GE1008UCR33□GT	330@25MHz	10,5,2	45@100MHz	500	1.050	450
GE1008UCR39□GT	390@25MHz	10,5,2	45@100MHz	480	1.120	470
GE1008UCR47□GT	470@25MHz	10,5,2	45@100MHz	450	1.190	470
GE1008UCR56□GT	560@25MHz	10,5,2	45@100MHz	415	1.330	400
GE1008UCR68□GT	680@25MHz	10,5,2	45@100MHz	375	1.470	400
GE1008UCR82□GT	820@25MHz	10,5	45@100MHz	250	1.610	400
GE1008UC1R0□GT	1000@25MHz	10,5	35@50MHz	210	1.750	370

GE1008UC1R2□GT	1200@7.9MHz	10,5	35@50MHz	200	2.000	310
GE1008UC1R5□GT	1500@7.9MHz	10,5	28@50MHz	180	2.300	330
GE1008UC1R8□GT	1800@7.9MHz	10,5	28@50MHz	160	2.600	300
GE1008UC2R2□GT	2200@7.9MHz	10,5	20@50MHz	90	2.800	280
GE1008UC2R7□GT	2700@7.9MHz	10,5	22@25MHz	80	3.200	290
GE1008UC3R3□GT	3300@7.9MHz	10,5	22@25MHz	70	3.400	290
GE1008UC3R9□GT	3900@7.9MHz	10,5	16@25MHz	60	3.600	260
GE1008UC4R7□GT	4700@7.9MHz	10,5	18@25MHz	60	4.000	260
GE1008UC5R6□GT	5600@7.9MHz	10,5	18@7.9MHz	55	7.600	240
GE1008UC6R8□GT	6800@7.9MHz	10,5	18@7.9MHz	50	8.200	200
GE1008UC8R2□GT	8200@7.9MHz	10,5	18@7.9MHz	40	8.200	170

1210HC Series

Part Number	Inductance (nH)	Tolerance (%)	Q Min	SRF (MHz) Min	DCR(Ω) Max	Idc (mA) Max
GE1210HC3N9□GT	3.9@100MHz	10	30@300MHz	6000	0.050	1000
GE1210HC4N7□GT	4.7@100MHz	10,5	30@300MHz	5800	0.065	1000
GE1210HC8N2□GT	8.2@100MHz	10	30@300MHz	5500	0.070	1000
GE1210HC010□GT	10@100MHz	10,5,2	40@300MHz	4000	0.080	1000
GE1210HC012□GT	12@100MHz	10,5	40@300MHz	3200	0.080	1000
GE1210HC015□GT	15@100MHz	10,5	40@300MHz	3200	0.100	1000
GE1210HC018□GT	18@100MHz	10,5,2	50@300MHz	2800	0.100	1000
GE1210HC022□GT	22@100MHz	10,5	50@300MHz	2200	0.100	1000
GE1210HC027□GT	27@100MHz	10,5,2	50@300MHz	1800	0.110	1000
GE1210HC033□GT	33@100MHz	10,5,2	55@300MHz	1800	0.110	1000
GE1210HC039□GT	39@100MHz	10,5,2	55@300MHz	1800	0.120	1000
GE1210HC047□GT	47@100MHz	10,5,2	55@300MHz	1500	0.130	1000
GE1210HC056□GT	56@100MHz	10,5,2	55@300MHz	1450	0.140	1000
GE1210HC068□GT	68@100MHz	10,5,2	55@300MHz	1200	0.150	900
GE1210HC082□GT	82@100MHz	10,5,2	55@300MHz	1000	0.200	900
GE1210HCR10□GT	100@100MHz	10,5,2	55@300MHz	900	0.210	850
GE1210HCR12□GT	120@100MHz	10,5,2	60@300MHz	800	0.210	800
GE1210HCR15□GT	150@100MHz	10,5,2	60@300MHz	780	0.250	750
GE1210HCR18□GT	180@50MHz	10,5,2	60@300MHz	760	0.300	700
GE1210HCR22□GT	220@50MHz	10,5,2	60@300MHz	650	0.320	670
GE1210HCR27□GT	270@50MHz	10,5,2	55@300MHz	620	0.340	630
GE1210HCR33□GT	330@50MHz	10,5,2	45@150MHz	600	0.380	590
GE1210HCR39□GT	390@50MHz	10,5,2	45@150MHz	510	0.580	530
GE1210HCR47□GT	470@50MHz	10,5,2	45@150MHz	500	0.800	490
GE1210HCR56□GT	560@35MHz	10,5	45@150MHz	420	1.100	460
GE1210HCR68□GT	680@35MHz	10,5,2	45@150MHz	400	1.200	430
GE1210HCR82□GT	820@35MHz	10,5,2	45@150MHz	370	1.820	400
GE1210HC1R0□GT	1000@35MHz	10,5,2	45@150MHz	340	1.850	320
GE1210HC1R2□GT	1200@35MHz	10,5	35@150MHz	220	1.870	300
GE1210HC1R5□GT	1500@7.9MHz	10,5	30@50MHz	160	1.950	310
GE1210HC1R8□GT	1800@7.9MHz	10,5	30@50MHz	160	2.250	310
GE1210HC2R2□GT	2200@7.9MHz	10,5	30@50MHz	160	2.410	310
GE1210HC2R7□GT	2700@7.9MHz	10,5	25@25MHz	140	2.850	300
GE1210HC3R3□GT	3300@7.9MHz	10,5	20@25MHz	110	3.120	300
GE1210HC3R9□GT	3900@7.9MHz	10,5	20@25MHz	95	3.600	290
GE1210HC4R7□GT	4700@7.9MHz	10,5	16@25MHz	60	4.000	280
GE1210HC5R6□GT	5600@7.9MHz	10,5	20@7.9MHz	60	5.000	250
GE1210HC6R8□GT	6800@7.9MHz	10,5	20@7.9MHz	55	8.000	230

Part Number	Inductance (nH)	Tolerance (%)	Q Min	SRF (MHz) Min	DCR(Ω) Max	Idc (mA) Max
GE1210HC8R2□GT	8200@7.9MHz	10,5	20@7.9MHz	50	8.600	170

0805UF Series

Part Number	Inductance (μH)	Tolerance (%)	Q Min	SRF (MHz) Min	DCR(Ω) Max	Idc (mA) Max
GE0805UF1R0□ST	1.0@7.96MHz	10,5	12@7.96MHz	360	1.00	530
GE0805UF1R2□ST	1.2@7.96MHz	10,5	12@7.96MHz	350	1.15	520
GE0805UF1R5□ST	1.5@7.96MHz	10,5	12@7.96MHz	300	1.20	500
GE0805UF1R8□ST	1.8@7.96MHz	10,5	12@7.96MHz	220	1.35	450
GE0805UF2R2□ST	2.2@7.96MHz	10,5	12@7.96MHz	180	1.50	400
GE0805UF2R7□ST	2.7@7.96MHz	10,5	12@7.96MHz	160	1.70	380
GE0805UF3R3□ST	3.3@7.96MHz	10,5	12@7.96MHz	130	1.80	360
GE0805UF3R9□ST	3.9@7.96MHz	10,5	12@7.96MHz	115	1.95	340
GE0805UF4R7□ST	4.7@7.96MHz	10,5	12@7.96MHz	105	2.05	320
GE0805UF5R6□ST	5.6@7.96MHz	10,5	12@7.96MHz	80	2.30	300
GE0805UF6R8□ST	6.8@7.96MHz	10,5	12@7.96MHz	70	2.60	270
GE0805UF7R5□ST	7.5@7.96MHz	10,5	12@7.96MHz	60	2.80	240
GE0805UF8R2□ST	8.2@7.96MHz	10,5	12@7.96MHz	55	3.00	200
GE0805UF100□ST	10@2.52MHz	10,5	10@2.52MHz	40	3.20	180
GE0805UF120□ST	12@2.52MHz	10,5	10@2.52MHz	17	3.50	110
GE0805UF150□ST	15@2.52MHz	10,5	10@2.52MHz	16	4.20	100
GE0805UF180□ST	18@2.52MHz	10,5	10@2.52MHz	15	4.50	95
GE0805UF220□ST	22@2.52MHz	10,5	10@2.52MHz	14	6.00	80

1008IF Series

Part Number	Inductance (μH)	Tolerance (%)	Q Min	SRF (MHz) Min	DCR(Ω) Max	Idc (mA) Max
GE1008IF1R0□ST	1.0@25MHz	10,5	12@25MHz	300	0.55	580
GE1008IF1R2□ST	1.2@7.96MHz	10,5	18@7.96MHz	250	0.75	550
GE1008IF1R5□ST	1.5@7.96MHz	10,5	18@7.96MHz	230	0.85	400
GE1008IF1R8□ST	1.8@7.96MHz	10,5	18@7.96MHz	168	0.95	320
GE1008IF2R2□ST	2.2@7.96MHz	10,5	18@7.96MHz	150	1.30	315
GE1008IF2R7□ST	2.7@7.96MHz	10,5	18@7.96MHz	125	1.40	300
GE1008IF3R3□ST	3.3@7.96MHz	10,5	18@7.96MHz	90	1.50	280
GE1008IF3R9□ST	3.9@7.96MHz	10,5	18@7.96MHz	75	1.55	250
GE1008IF4R7□ST	4.7@7.96MHz	10,5	18@7.96MHz	55	1.75	210
GE1008IF5R6□ST	5.6@7.96MHz	10,5	15@7.96MHz	50	1.90	190
GE1008IF6R8□ST	6.8@7.96MHz	10,5	15@7.96MHz	50	2.00	175
GE1008IF7R5□ST	7.5@7.96MHz	10,5	15@7.96MHz	30	2.10	170
GE1008IF8R2□ST	8.2@7.96MHz	10,5	15@7.96MHz	30	2.20	160
GE1008IF100□ST	10@2.52MHz	10,5	12@2.52MHz	30	2.50	155
GE1008IF120□ST	12@2.52MHz	10,5	12@2.52MHz	30	2.60	145
GE1008IF150□ST	15@2.52MHz	10,5	12@2.52MHz	23	3.00	130
GE1008IF180□ST	18@2.52MHz	10,5	12@2.52MHz	23	3.00	130
GE1008IF220□ST	22@2.52MHz	10,5	12@2.52MHz	23	3.90	105
GE1008IF270□ST	27@2.52MHz	10,5	12@2.52MHz	10	4.00	100
GE1008IF330□ST	33@2.52MHz	10,5	10@2.52MHz	8	4.80	85
GE1008IF390□ST	39@2.52MHz	10,5	10@2.52MHz	7	5.00	80
GE1008IF470□ST	47@2.52MHz	10,5	10@2.52MHz	7	5.70	60
GE1008IF560□ST	56@2.52MHz	10,5	10@2.52MHz	7.1	6.00	55
GE1008IF680□ST	68@2.52MHz	10,5	10@2.52MHz	7.1	6.70	50
GE1008IF820□ST	82@2.52MHz	10,5	10@2.52MHz	6.5	7.50	45
GE1008IF101□ST	100@0.796MHz	10,5	10@0.796MHz	4.5	11.0	40

GE1008IF121□ST	120@0.796MHz	10,5	9@0.796MHz	3	13.0	30
GE1008IF151□ST	150@0.796MHz	10,5	9@0.796MHz	3	15.0	25
GE1008IF221□ST	220@0.796MHz	10	9@0.796MHz	2.5	18.0	20

1210IF Series

Part Number	Inductance (μ H)	Tolerance (%)	Q Min	SRF (MHz) Min	DCR(Ω) Max	Idc (mA) Max
GE1210IF1R0□ST	1.0@7.96MHz	10,5	20@7.96MHz	220	0.3	450
GE1210IF1R2□ST	1.2@7.96MHz	10,5	20@7.96MHz	210	0.3	450
GE1210IF1R5□ST	1.5@7.96MHz	10,5	20@7.96MHz	200	0.4	450
GE1210IF1R8□ST	1.8@7.96MHz	10,5	20@7.96MHz	195	0.5	450
GE1210IF2R2□ST	2.2@7.96MHz	10,5	20@7.96MHz	175	0.6	450
GE1210IF2R7□ST	2.7@7.96MHz	10,5	20@7.96MHz	120	0.7	420
GE1210IF3R3□ST	3.3@7.96MHz	10,5	20@7.96MHz	100	1.1	380
GE1210IF3R9□ST	3.9@7.96MHz	10,5	20@7.96MHz	90	1.2	360
GE1210IF4R7□ST	4.7@7.96MHz	10,5	18@7.96MHz	65	1.3	350
GE1210IF5R6□ST	5.6@7.96MHz	10,5	18@7.96MHz	55	2.0	320
GE1210IF6R8□ST	6.8@7.96MHz	10,5	18@7.96MHz	40	1.5	310
GE1210IF8R2□ST	8.2@7.96MHz	10,5	18@7.96MHz	40	1.6	305
GE1210IF100□ST	10@2.52MHz	10,5	15@2.52MHz	35	1.0	300
GE1210IF120□ST	12@2.52MHz	10,5	15@2.52MHz	28	1.2	265
GE1210IF130□ST	13@2.52MHz	10,5	15@2.52MHz	22	1.2	250
GE1210IF150□ST	15@2.52MHz	10,5	15@2.52MHz	22	2.0	225
GE1210IF180□ST	18@2.52MHz	10,5	15@2.52MHz	22	2.1	210
GE1210IF220□ST	22@2.52MHz	10,5	15@2.52MHz	22	2.4	200
GE1210IF270□ST	27@2.52MHz	10,5	15@2.52MHz	20	2.7	180
GE1210IF330□ST	33@2.52MHz	10,5	15@2.52MHz	15	2.9	160
GE1210IF350□ST	35@2.52MHz	10,5	15@2.52MHz	16	4.2	145
GE1210IF390□ST	39@2.52MHz	10,5	15@2.52MHz	16	4.7	150
GE1210IF470□ST	47@2.52MHz	10,5	15@2.52MHz	10	5.2	140
GE1210IF560□ST	56@2.52MHz	10,5	15@2.52MHz	8.0	5.6	125
GE1210IF680□ST	68@2.52MHz	10,5	12@2.52MHz	5.0	4.7	110
GE1210IF750□ST	75@2.52MHz	10,5	12@2.52MHz	5.0	5.5	100
GE1210IF820□ST	82@2.52MHz	10,5	12@2.52MHz	5.0	5.6	100
GE1210IF880□ST	88@2.52MHz	10,5	12@2.52MHz	5.0	6.0	95
GE1210IF101□ST	100@0.796MHz	10,5	12@0.796MHz	5.0	6.8	95
GE1210IF121□ST	120@0.796MHz	10,5	12@0.796MHz	4.0	7.9	85
GE1210IF151□ST	150@0.796MHz	10,5	12@0.796MHz	4.0	9.0	80
GE1210IF161□ST	160@0.796MHz	10,5	10@0.796MHz	3.0	9.1	75
GE1210IF181□ST	180@0.796MHz	10,5	10@0.796MHz	3.0	14.5	70
GE1210IF221□ST	220@0.796MHz	10,5	10@0.796MHz	2.6	16.5	65
GE1210IF271□ST	270@0.796MHz	10	10@0.796MHz	2.5	18.0	60
GE1210IF331□ST	330@0.796MHz	10	10@0.796MHz	2.3	19.0	55
GE1210IF391□ST	390@0.796MHz	10	10@0.796MHz	2.2	21.5	45
GE1210IF471□ST	470@0.796MHz	10	10@0.796MHz	2.0	22.5	40
GE1210IF561□ST	560@0.796MHz	10	6@0.796MHz	1.5	24.0	30

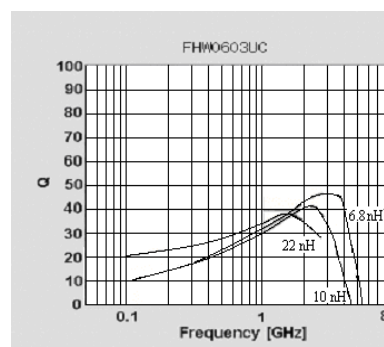
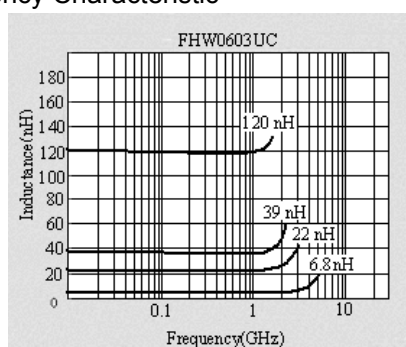
1812IF Series

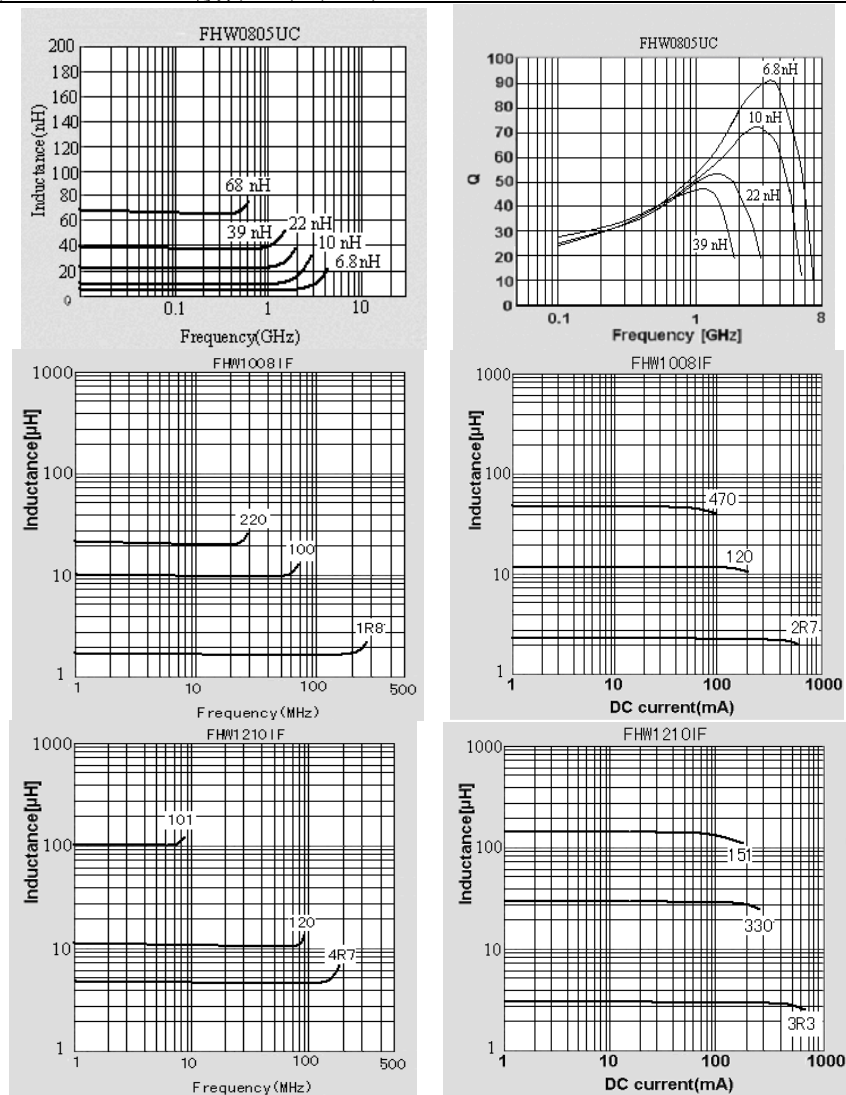
Part Number	Inductance (μ H)	Tolerance (%)	Q Min	SRF (MHz) Min	DCR(Ω) Max	Idc (mA) Max
GE1812IF1R0□ST	1.0@7.96MHz	10,5	25@7.96MHz	200	0.22	1000
GE1812IF1R2□ST	1.2@7.96MHz	10,5	25@7.96MHz	200	0.35	1000
GE1812IF1R5□ST	1.5@7.96MHz	10,5	25@7.96MHz	180	0.32	1000
GE1812IF1R8□ST	1.8@7.96MHz	10,5	25@7.96MHz	160	0.35	950
GE1812IF2R2□ST	2.2@7.96MHz	10,5	25@7.96MHz	150	0.37	900
GE1812IF2R7□ST	2.7@7.96MHz	10,5	25@7.96MHz	145	0.37	850

Part Number	Inductance (μ H)	Tolerance (%)	Q Min	SRF (MHz) Min	DCR(Ω) Max	Idc (mA) Max
GE1812IF3R3□ST	3.3@7.96MHz	10,5	25@7.96MHz	140	0.48	800
GE1812IF3R9□ST	3.9@7.96MHz	10,5	25@7.96MHz	135	0.60	750
GE1812IF4R7□ST	4.7@7.96MHz	10,5	25@7.96MHz	120	1.00	700
GE1812IF5R6□ST	5.6@7.96MHz	10,5	25@7.96MHz	110	0.55	650
GE1812IF6R8□ST	6.8@7.96MHz	10,5	25@7.96MHz	80	0.80	600
GE1812IF8R2□ST	8.2@7.96MHz	10,5	20@7.96MHz	70	0.85	600
GE1812IF100□ST	10@2.52MHz	10,5	20@2.52MHz	65	1.0	550
GE1812IF120□ST	12@2.52MHz	10,5	20@2.52MHz	55	1.1	550
GE1812IF150□ST	15@2.52MHz	10,5	18@2.52MHz	35	1.2	500
GE1812IF180□ST	18@2.52MHz	10,5	18@2.52MHz	29	1.2	500
GE1812IF220□ST	22@2.52MHz	10,5	18@2.52MHz	20	1.3	450
GE1812IF270□ST	27@2.52MHz	10,5	18@2.52MHz	20	1.5	400
GE1812IF330□ST	33@2.52MHz	10,5	18@2.52MHz	18	1.7	350
GE1812IF390□ST	39@2.52MHz	10,5	18@2.52MHz	14	1.8	350
GE1812IF470□ST	47@2.52MHz	10,5	16@2.52MHz	10	2.0	300
GE1812IF560□ST	56@2.52MHz	10,5	16@2.52MHz	10	2.2	290
GE1812IF680□ST	68@2.52MHz	10,5	12@2.52MHz	5.4	2.4	260
GE1812IF820□ST	82@2.52MHz	10,5	12@2.52MHz	5.2	2.8	240
GE1812IF101□ST	100@0.796MHz	10,5	12@0.796MHz	4.0	3.0	220
GE1812IF121□ST	120@0.796MHz	10,5	10@0.796MHz	3.3	3.3	220
GE1812IF151□ST	150@0.796MHz	10,5	10@0.796MHz	3.0	3.7	200
GE1812IF181□ST	180@0.796MHz	10,5	10@0.796MHz	3.0	4.5	200
GE1812IF221□ST	220@0.796MHz	10,5	10@0.796MHz	2.5	8.0	170
GE1812IF271□ST	270@0.796MHz	10,5	10@0.796MHz	2.2	8.5	160
GE1812IF331□ST	330@0.796MHz	10	10@0.796MHz	2.0	9.0	150
GE1812IF391□ST	390@0.796MHz	10	10@0.796MHz	1.8	9.5	130
GE1812IF471□ST	470@0.796MHz	10	8@0.796MHz	1.6	10.4	120
GE1812IF561□ST	560@0.796MHz	10	8@0.796MHz	1.5	12.5	110
GE1812IF681□ST	680@0.796MHz	10	8@0.796MHz	1.5	14.0	100
GE1812IF751□ST	750@0.796MHz	10	8@0.796MHz	1.5	14.5	95
GE1812IF821□ST	820@0.796MHz	10	8@0.796MHz	1.5	15.0	95
GE1812IF102□ST	1000@0.252MHz	10	6@0.252MHz	1.4	16.5	90

特性曲线 Characteristic Curve

■ 频率特性 Frequency Characteristic

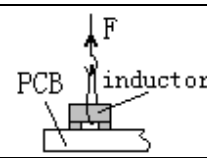
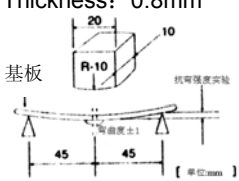




可靠性测试 Reliability Test

(绕线型片式电感器系列 Wire Wound Chip Inductor)

NO.	Item	Specification		Test Method
		0402HC 、 0603UC 、 0805UC 、 1008UC 、 1210HC	0805UF、1008IF、 1210IF、1812IF	
1	Operating Temperature Range	-40~+125℃	-40~+85℃	
2	Storage Temperature Range	-40~+125℃	-40~+85℃	
3	Rating current	150~1000mA(max)	20~1000mA(max)	current sources : CH1320 or HP4284A+HP42841A

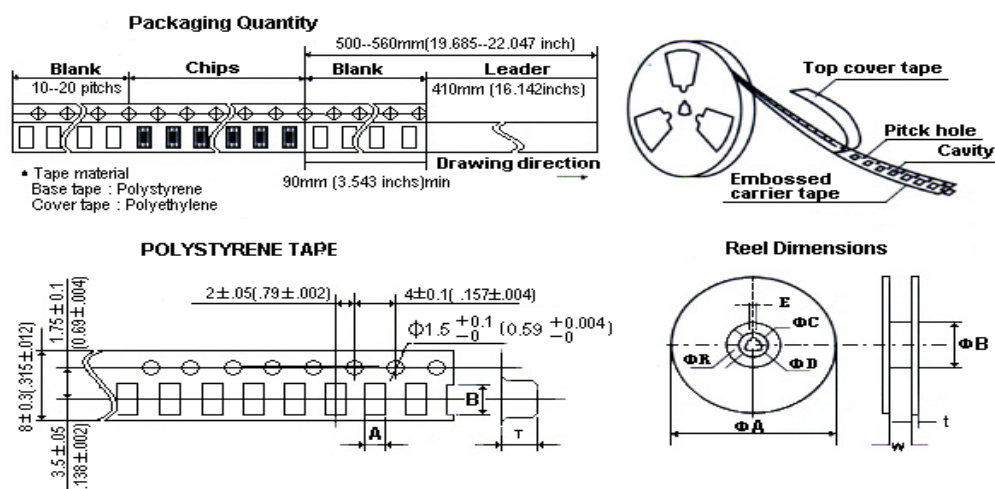
NO.	Item	Specification		Test Method
		0402HC 、 0603UC 、 0805UC 、 1008UC 、 1210HC	0805UF、1008IF、 1210IF、1812IF	
4	Inductance	1.0~8200nH	1.0~1000μH	Test Frequency: 0.252~250MHz Test Equipment: HP4291A、 HP4286A、HP4287A、HP4284A Test Fixture: HP16193A or HP16334A
5	Q 值	16~65(min)	10~45(min)	Test Frequency: 0.252~1500MHz Test Equipment: HP4291A、 HP4286A、HP4287A、HP4284A Test Fixture : HP16193A or HP16334A
6	RDC	0.03~8.60 Ω (max)	0.22~24.00 Ω (max)	Test Equipment : HP4263B 、 HP4286A
7	SRF	40~12500MHz(min)	1.4~360MHz(min)	Test Equipment: HP4291A Test Fixture: 16193A
8	Solderability	The metalized area must have more then 90% of solder coverage		Soldering Temp.: 230±5℃ Dippng time: 5±1S
9	Resistance to Soldering heat	No evidence of mechanical damage Inductance change less than ±5% Q change less than ±10%		Soldering Temp.: 260±5℃ Dippng time: 10±1S
10	Tehermal Shock			A cycle contain: Step 1: -40℃, 30Min Step 2: 85℃, 30Min Cycle Times: 10
11	High Temperature Storage			Test Temperature: 85±2℃ Test Time: 96±2 小时
12	Low Temperature Storage			Test Temperature: -40±2℃ Test Time: 96±2Hours
13	Moisture Resistance	No evidence of mechanical damage Inductance change less than ±5% Q change less than ±10%		Test Temperature: 50±2℃ 90~95% Test Time: 100±2 小时 with rating current
14	Vibration			Amplitude: 1.5mm X、Y、Z 方向各振 1 小时 45 分 Frequency range : 10~55~10Hz(min)
15	Component Adhesion	0402、0603 and 0805UF series less than 1.3KG, the other series less than 2 KG.		
16	Resistance to Bend	No evidence of mechanical damage		camber: 20mm Test Board: Glass-Epoxy board Thickness: 0.8mm 

NO.	Item	Specification		Test Method
		0402HC 、 0603UC 、 0805UC 、 1008UC 、 1210HC	0805UF、1008IF、 1210IF、1812IF	
17	Life	No evidence of mechanical damage Inductance change less than $\pm 5\%$ Q change less than $\pm 10\%$		Test Temperature: $85 \pm 2^\circ\text{C}$ Test Time: 1000Hours With rating current

Note: Electronic Characteristic are to be tested after 24 ± 2 hours at standard condition.

包装 Packaging Style

塑料胶带 Tape



unit:(mm)

	A	B	T
0402	0.72	1.35	0.75
0603	1.15	1.85	0.98
0805	1.85	2.45	1.55
1008	2.73	2.90	2.34
1210	2.96	3.60	2.40
1812	3.50	4.90	3.20

unit	ΦA	ΦB	ΦC	ΦD	E	W	t	R
mm	178	60	13	21	2	10	2	1
	330	75	13	23	2	12	2	1

包装数量 Packaging Quantity

规格 Dimension	0402	0603	0805	1008	1210	1812
数量 Quantity(pcs)	4000	4000	3000	2000	2000	2000

CD 系列功率电感 CDSeries SMD Power Inductors



特征 FEATURES

• 多种不同尺寸结构适合高密度表面贴装

• Various high power surface mountable type inductors are superior to high saturation

应用 APPLICATIONS

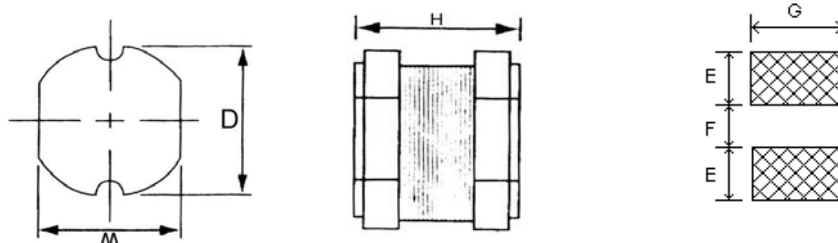
• 移动通信, 笔记本电脑
• LCD 电视
• DC/DC 转换

• Portable communication equipment, Notebook Computer
• LCD television
• DC/DC converters

产品规格型号表示方法 ORDERING CODE

CD	54	—	150	M	T
①	②		③	④	⑤
① 产品代号 Code	② 规格尺寸 Dimensions (L×W×T) (mm)		③ 感量(μH) Inductance	④ 误差 Tolerance	⑤ 包装方式 Packaging Style
CD	CD 系列 功率电感	43 4.5×4.0×3.2 54 5.8×5.2×4.5 75 7.8×7.0×5.0 105 10.0×9.0×5.4	150 15 101 100 102 1000	K ±10% L ±15% M ±20%	T Tape&Reel B Bulk

外形尺寸 Dimensions



单位(Unit): mm

	CD32	CD43	CD54	CD73	CD75	CD104	CD105
D	3.5±0.3	4.5±0.3	5.8±0.3	7.8±0.3	7.8±0.3	10.0±0.3	10.0±0.3
H	2.1±0.3	3.2±0.3	4.5±0.3	3.5±0.4	5.0±0.4	4.0±0.4	5.4±0.3
W	3.0±0.3	4.0±0.3	5.2±0.3	7.0±0.3	7.0±0.3	9.0±0.3	9.0±0.3
E	1.3±0.3	2.1±0.3	2.5±0.3	3.3±0.3	3.3±0.3	4.4±0.3	4.4±0.3
F	0.9±0.3	1.0±0.3	1.1±0.3	1.4±0.3	1.4±0.3	1.8±0.3	1.8±0.3
G	3.0±0.3	4.0±0.3	5.8±0.3	8.0±0.3	8.0±0.3	10.0±0.3	10.0±0.3

电性能参数 Electrical Characteristics

CD32 Series

Part Number	Inductance (μH)	DCR (Ω)Max	Isat(A)
CD32-100MT	10	0.23	0.760
CD32-120MT	12	0.27	0.685
CD32-150MT	15	0.31	0.635

Part Number	Inductance (μH)	DCR (Ω)Max	Isat(A)
CD32-180MT	18	0.41	0.525
CD32-220MT	22	0.47	0.500
CD32-270MT	27	0.66	0.405
CD32-330KT	33	0.76	0.380
CD32-390KT	39	0.85	0.355
CD32-470KT	47	0.97	0.330
CD32-560KT	56	1.25	0.290
CD32-680KT	68	1.45	0.275
CD32-101KT	100	2.20	0.220
CD32-121KT	120	2.90	0.185
CD32-151KT	150	3.40	0.170
CD32-181KT	180	3.90	0.165
CD32-221KT	220	4.50	0.155
CD32-271KT	270	6.00	0.135
CD32-331KT	330	7.00	0.125
CD32-391KT	390	7.80	0.115

CD43 Series

Part Number	Inductance (μH)	DCR (Ω)Max	Isat(A)
CD43-1R0MT	1.0	0.045	3.50
CD43-1R5MT	1.5	0.055	2.85
CD43-1R8MT	1.8	0.060	2.80
CD43-2R2MT	2.2	0.070	2.40
CD43-2R7MT	2.7	0.075	2.30
CD43-3R3MT	3.3	0.085	2.25
CD43-3R9MT	3.9	0.090	1.70
CD43-4R7MT	4.7	0.105	1.65
CD43-5R6MT	5.6	0.120	1.60
CD43-6R8MT	6.8	0.130	1.40
CD43-8R2MT	8.2	0.145	1.30
CD43-100MT	10	0.180	1.10
CD43-120MT	12	0.210	1.00
CD43-150MT	15	0.235	0.85
CD43-180MT	18	0.330	0.80
CD43-220MT	22	0.360	0.70
CD43-270MT	27	0.520	0.65
CD43-330KT	33	0.540	0.60
CD43-390KT	39	0.580	0.55
CD43-470KT	47	0.840	0.48
CD43-560KT	56	0.930	0.46
CD43-680KT	68	1.110	0.44
CD43-820KT	82	1.250	0.42
CD43-101KT	100	1.400	0.40
CD43-221KT	220	2.460	0.27
CD43-331KT	330	4.000	0.25
CD43-471KT	470	5.500	0.16
CD43-561KT	560	7.000	0.15

CD54 Series

Part Number	Inductance (μH)	DCR (Ω)Max	Isat(A)
CD54-4R7MT	4.7	0.038	2.50
CD54-6R8MT	6.8	0.055	2.00

Part Number	Inductance (μH)	DCR (Ω)Max	Isat(A)
CD54-100MT	10	0.10	1.65
CD54-120MT	12	0.12	1.55
CD54-150MT	15	0.14	1.40
CD54-180MT	18	0.15	1.25
CD54-220MT	22	0.18	1.10
CD54-270MT	27	0.20	0.95
CD54-330LT	33	0.22	0.90
CD54-390LT	39	0.30	0.80
CD54-470LT	47	0.35	0.75
CD54-560KT	56	0.40	0.70
CD54-680KT	68	0.45	0.65
CD54-820KT	82	0.60	0.60
CD54-101KT	100	0.70	0.55
CD54-121KT	120	0.85	0.45
CD54-151KT	150	1.10	0.43
CD54-181KT	180	1.35	0.40
CD54-221KT	220	1.55	0.35
CD54-331KT	330	2.00	0.30
CD54-471KT	470	2.50	0.25

CD73 Series

Part Number	Inductance (μH)	DCR (Ω)Max	Isat(A)
CD73-100MT	10	0.080	2.10
CD73-120MT	12	0.090	1.80
CD73-150MT	15	0.095	1.70
CD73-180MT	18	0.110	1.40
CD73-220MT	22	0.130	1.35
CD73-270MT	27	0.145	1.25
CD73-330LT	33	0.170	1.05
CD73-390LT	39	0.215	0.95
CD73-470LT	47	0.250	0.90
CD73-560KT	56	0.280	0.80
CD73-680KT	68	0.330	0.75
CD73-820KT	82	0.405	0.70
CD73-101KT	100	0.480	0.65
CD73-121KT	120	0.535	0.60
CD73-151KT	150	0.750	0.55
CD73-181KT	180	1.020	0.50
CD73-221KT	220	1.200	0.45
CD73-271KT	270	1.305	0.37
CD73-331KT	330	1.495	0.35
CD73-471KT	470	2.200	0.30

CD75 Series

Part Number	Inductance (μH)	DCR (Ω)Max	Isat(A)
CD75-100MT	10	0.07	2.55
CD75-120MT	12	0.08	2.40
CD75-150MT	15	0.09	2.00
CD75-180MT	18	0.10	1.95
CD75-220MT	22	0.11	1.70
CD75-270MT	27	0.12	1.55
CD75-330LT	33	0.13	1.40

Part Number	Inductance (μH)	DCR (Ω)Max	Isat(A)
CD75-390LT	39	0.15	1.35
CD75-470LT	47	0.17	1.25
CD75-560KT	56	0.23	1.10
CD75-680KT	68	0.25	1.00
CD75-820KT	82	0.35	0.95
CD75-101KT	100	0.40	0.78
CD75-121KT	120	0.45	0.73
CD75-151KT	150	0.60	0.70
CD75-181KT	180	0.70	0.60
CD75-221KT	220	0.95	0.55
CD75-271KT	270	1.10	0.50
CD75-331KT	330	1.25	0.45
CD75-391KT	390	1.75	0.40
CD75-471KT	470	1.95	0.35

CD104 Series

Part Number	Inductance (μH)	DCR (Ω)Max	Isat(A)
CD104-100MT	10	0.05	2.90
CD104-120MT	12	0.06	2.80
CD104-150MT	15	0.07	2.30
CD104-180MT	18	0.08	2.15
CD104-220MT	22	0.09	2.10
CD104-270MT	27	0.10	1.90
CD104-330LT	33	0.12	1.85
CD104-390LT	39	0.15	1.45
CD104-470LT	47	0.17	1.35
CD104-560KT	56	0.20	1.30
CD104-680KT	68	0.22	1.20
CD104-820KT	82	0.25	1.00
CD104-101KT	100	0.30	0.95
CD104-121KT	120	0.40	0.90
CD104-151KT	150	0.50	0.80
CD104-181KT	180	0.62	0.70
CD104-221KT	220	0.72	0.65
CD104-271KT	270	0.95	0.57
CD104-331KT	330	1.10	0.55
CD104-391KT	390	1.20	0.50
CD104-471KT	470	1.52	0.45
CD104-561KT	560	1.90	0.40

CD105 Series

Part Number	Inductance (μH)	DCR (Ω)Max	Isat(A)
CD105-100MT	10	0.06	3.80
CD105-120MT	12	0.07	3.40
CD105-150MT	15	0.08	2.90
CD105-180MT	18	0.09	2.65
CD105-220MT	22	0.10	2.50
CD105-270MT	27	0.11	2.25
CD105-330LT	33	0.12	2.00
CD105-390LT	39	0.13	1.90
CD105-470LT	47	0.15	1.70
CD105-560KT	56	0.19	1.60

Part Number	Inductance (μH)	DCR (Ω)Max	Isat(A)
CD105-680KT	68	0.22	1.45
CD105-820KT	82	0.25	1.30
CD105-101KT	100	0.33	1.15
CD105-121KT	120	0.40	1.00
CD105-151KT	150	0.45	0.95
CD105-181KT	180	0.60	0.85
CD105-221KT	220	0.70	0.75
CD105-271KT	270	0.95	0.70
CD105-331KT	330	1.10	0.60
CD105-391KT	390	1.20	0.55
CD105-471KT	470	1.45	0.50
CD105-561KT	560	1.90	0.48
CD105-681KT	680	2.25	0.45
CD105-821KT	820	2.50	0.40

电感量公差 Inductance tolerance: K: ±10% L: ±15% M: ±20%

LS 测试频率 Measuring Freq(L): 1.0 μH~8.2 μH(7.96MHz) 10 μH~82 μH(2.52MHz) 100 μH~680 μH(1KHz)

额定电流的测试是当加载额定电流时电感量下降≤10%，器件温升Δt≤40℃。Rated Current applied when inductance drop not more than 10% or temperature rise Δt≤40℃ whichever is lower.

DB 系列功率电感 DB Series SMD Power Inductors



特征 FEATURES

- 大电流
- DBS 系列屏蔽结构
- 适合于表面贴装, 适合于回流焊
- High saturation current
- PBS type with magnetic shielded
- SMT type, suitable for solder reflow

应用 APPLICATIONS

- 移动通信, 笔记本电脑
- LCD 电视
- DC/DC 转换
- Portable communication equipment, Notebook Computer
- LCD television
- DC/DC converters

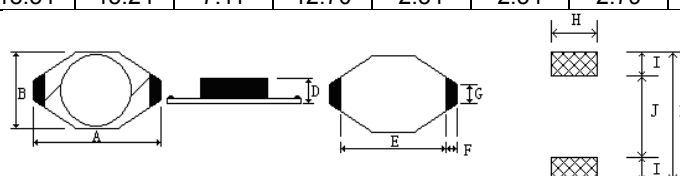
产品规格型号表示方法 ORDERING CODE

DBO	1608	—	150	M	T
①	②		③	④	⑤

① 产品代号 Code		② 规格尺寸 Dimensions (L×W×T) (mm)		③ 感量(μH) Inductance		④ 误差 Tolerance		⑤ 包装方式 Packaging Style	
DBO	PBO 系列 功率电感	1608	6.60×4.45×2.92	150	15	K	±10%	T	Tape&Reel
DBS	PBS 系列 功率电感	3316					%	B	Bulk
		5022							

外形尺寸 Dimensions

型号 Part	A	B	D	E	F	G	H	I	J
3316	12.95	9.40	5.21	7.62	2.54	2.52	2.79	2.92	7.37
5022	18.54	15.24	7.11	12.70	2.54	2.54	2.79	2.92	12.45



型号 Part	A	B	D	E	F	G	H	I	J
1608	6.60	4.45	2.92	4.32	1.02	1.27	3.56	1.40	4.06

电性能参数 Electrical Characteristics

DBO1608 Series

Part Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω)Max	SRF (MHz)	Isat (A)	IrDMS (A)
DBO1608-1R0MT	1.0	±20%	100kHz	0.06	130	2.90	2.90
DBO1608-1R5MT	1.5	±20%	100kHz	0.075	115	2.60	2.80
DBO1608-2R2MT	2.2	±20%	100kHz	0.09	90	2.30	2.40
DBO1608-3R3MT	3.3	±20%	100kHz	0.125	70	2.00	2.00

Part Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω)Max	SRF (MHz)	Isat (A)	IrDMS (A)
DBO1608-4R7MT	4.7	±20%	100kHz	0.16	50	1.50	1.50
DBO1608-6R8MT	6.8	±20%	100kHz	0.20	45	1.20	1.14
DBO1608-100MT	10	±20%	100kHz	0.25	35	1.10	1.10
DBO1608-150MT	15	±20%	100kHz	0.35	30	0.90	1.20
DBO1608-220MT	22	±20%	100kHz	0.45	20	0.70	0.80
DBO1608-330MT	33	±20%	100kHz	0.60	15	0.58	0.60
DBO1608-470MT	47	±20%	100kHz	0.95	14	0.50	0.50
DBO1608-680MT	68	±20%	100kHz	1.15	11	0.40	0.40
DBO1608-101MT	100	±20%	100kHz	2.00	9	0.31	0.30
DBO1608-151MT	150	±20%	100kHz	2.50	6	0.27	0.25
DBO1608-221MT	220	±20%	100kHz	4.00	5.5	0.22	0.20
DBO1608-331MT	330	±20%	100kHz	5.50	5	0.18	0.16
DBO1608-471MT	470	±20%	100kHz	9.60	4	0.16	0.15
DBO1608-681MT	680	±20%	100kHz	11.50	3	0.14	0.12
DBO1608-102MT	1000	±20%	100kHz	21.00	2	0.10	0.07

DBO3316 Series

Dart Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω)Max	SRF (MHz)	Isat (A)	IrDMS (A)
DBO3316-1R0MT	1.0	±20%	100kHz	0.009	100	9.0	6.8
DBO3316-1R5MT	1.5	±20%	100kHz	0.010	90	8.0	6.4
DBO3316-2R2MT	2.2	±20%	100kHz	0.012	80	7.0	6.1
DBO3316-3R3MT	3.3	±20%	100kHz	0.015	65	6.4	5.4
DBO3316-4R7MT	4.7	±20%	100kHz	0.018	45	5.4	4.8
DBO3316-6R8MT	6.8	±20%	100kHz	0.027	38	4.6	4.4
DBO3316-100MT	10	±20%	100kHz	0.038	30	3.8	3.9
DBO3316-150MT	15	±20%	100kHz	0.046	27	3.0	3.1
DBO3316-220MT	22	±20%	100kHz	0.085	19	2.6	2.7
DBO3316-330MT	33	±20%	100kHz	0.100	15	2.0	2.1
DBO3316-470MT	47	±20%	100kHz	0.140	12	1.6	1.8
DBO3316-680MT	68	±20%	100kHz	0.200	10	1.4	1.5
DBO3316-101MT	100	±20%	100kHz	0.280	9	1.2	1.3
DBO3316-151MT	150	±20%	100kHz	0.400	6	1.0	1.0
DBO3316-221MT	220	±20%	100kHz	0.610	5	0.8	0.8
DBO3316-331MT	330	±20%	100kHz	1.020	4.5	0.6	0.6
DBO3316-471MT	470	±20%	100kHz	1.270	3.5	0.5	0.5
DBO3316-681MT	680	±20%	100kHz	2.020	2.5	0.4	0.4
DBO3316-102MT	1000	±20%	100kHz	3.000	2.0	0.3	0.3

测试条件: 100KHz 0.1VrDMS. Test at 100KHz, 0.1VrDMS.

Isat: 加 Isat 时, 电感量下降 ≤10% Inductance droD ≤10% tyD.at rated Isat

IrDMS: 加 IrDMS 时, 器件温度升高 ≤15℃ ΔT ≤15℃ rise tyD. at IrDMS.

DBO5022 Series

Dart Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω)Max	SRF (MHz)	Isat (A)	IrDMS (A)
DBO5022-1R0MT	1.0	±20%	100kHz	0.009	80	20	8.6
DBO5022-2R2MT	2.2	±20%	100kHz	0.014	80	16	7.1
DBO5022-3R3MT	3.3	±20%	100kHz	0.018	60	14	6.2
DBO5022-5R6MT	5.6	±20%	100kHz	0.020	40	12	5.3
DBO5022-100MT	10	±20%	100kHz	0.031	30	10	4.3
DBO5022-150MT	15	±20%	100kHz	0.036	22	8.0	4.0
DBO5022-220MT	22	±20%	100kHz	0.047	20	7.0	3.5

Dart Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω)Max	SRF (MHz)	Isat (A)	IrDMS (A)
DBO5022-330MT	33	±20%	100kHz	0.066	15	5.5	3.0
DBO5022-470MT	47	±20%	100kHz	0.086	9	4.5	2.6
DBO5022-680MT	68	±20%	100kHz	0.130	8	3.5	2.3
DBO5022-101MT	100	±20%	100kHz	0.190	7	3.0	1.8
DBO5022-151MT	150	±20%	100kHz	0.250	6	2.6	1.5
DBO5022-221MT	220	±20%	100kHz	0.380	5	2.4	1.2
DBO5022-331MT	330	±20%	100kHz	0.560	4	1.9	1.0
DBO5022-471MT	470	±20%	100kHz	0.850	3	1.4	8.2
DBO5022-681MT	680	±20%	100kHz	1.100	2.5	1.2	0.72
DBO5022-102MT	1000	±20%	100kHz	1.800	2	1.0	0.56

测试条件: 100KHz 0.1VrDMS. Test at 100KHz, 0.1VrDMS.

Isat: 加 Isat 时, 电感量下降 ≤10% Inductance droD ≤10% tyD.at rated Isat

IrDMS: 加 IrDMS 时, 器件温度升高 ≤15℃ ΔT ≤15℃ rise tyD. at IrDMS.

DBS1608 Series

Dart Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω)Max	SRF (MHz)	IrDMS (A)
DBS1608-1R0MT	1.0	±20%	100kHz	0.070	250	3.0
DBS1608-1R5MT	1.5	±20%	100kHz	0.085	125	2.8
DBS1608-2R2MT	2.2	±20%	100kHz	0.088	120	1.8
DBS1608-3R3MT	3.3	±20%	100kHz	0.102	120	1.6
DBS1608-4R7MT	4.7	±20%	100kHz	0.115	105	1.4
DBS1608-6R8MT	6.8	±20%	100kHz	0.125	50	1.2
DBS1608-100MT	10	±20%	100kHz	0.150	38	1.0
DBS1608-150MT	15	±20%	100kHz	0.260	33	0.80
DBS1608-220MT	22	±20%	100kHz	0.320	25	0.70
DBS1608-330MT	33	±20%	100kHz	0.360	20	0.60
DBS1608-470MT	47	±20%	100kHz	0.450	20	0.50
DBS1608-680MT	68	±20%	100kHz	1.000	15	0.40
DBS1608-101MT	100	±20%	100kHz	1.200	10	0.30
DBS1608-151MT	150	±20%	100kHz	1.500	9	0.26
DBS1608-221MT	220	±20%	100kHz	2.000	6	0.22
DBS1608-331MT	330	±20%	100kHz	2.500	5	0.20
DBS1608-471MT	470	±20%	100kHz	3.500	4	0.19
DBS1608-681MT	680	±20%	100kHz	8.000	3	0.18
DBS1608-102MT	1000	±20%	100kHz	10.000	2	0.15
DBS1608-152MT	1500	±20%	100kHz	12.500	2	0.12
DBS1608-222MT	2200	±20%	100kHz	16.500	2	0.10
DBS1608-332MT	3300	±20%	100kHz	28.500	1	0.08
DBS1608-472MT	4700	±20%	100kHz	35.000	1	0.06
DBS1608-682MT	6800	±20%	100kHz	40.000	1	0.04
DBS1608-103MT	10000	±20%	100kHz	55.000	0.8	0.02

测试条件: 100KHz 0.1VrDMS. Test at 100KHz, 0.1VrDMS.IDC: 加 IDC 时, 器件温度升高 ≤30℃ ΔT ≤30℃ rise tyD. at IrDMS.

DBS3316 Series

Dart Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω)Max	SRF (MHz)	Isat (A)	IrDMS (A)
DBS3316-1R0MT	1.0	±20%	100kHz	0.021	140	5.6	5.0
DBS3316-1R5MT	1.5	±20%	100kHz	0.022	120	5.2	4.5
DBS3316-2R2MT	2.2	±20%	100kHz	0.032	80	5.0	3.8
DBS3316-3R3MT	3.3	±20%	100kHz	0.039	70	3.9	3.3
DBS3316-4R7MT	4.7	±20%	100kHz	0.054	40	3.2	2.7

Dart Number	Inductance (μ H)	Tolerance	Test Freq.	DCR (Ω)Max	SRF (MHz)	Isat (A)	IrDMS (A)
DBS3316-6R8MT	6.8	$\pm 20\%$	100kHz	0.075	38	2.8	2.2
DBS3316-100MT	10.0	$\pm 20\%$	100kHz	0.101	35	2.4	2.0
DBS3316-150MT	15.0	$\pm 20\%$	100kHz	0.150	25	2.0	1.5
DBS3316-220MT	22.0	$\pm 20\%$	100kHz	0.207	19	1.6	1.3
DBS3316-330MT	33.0	$\pm 20\%$	100kHz	0.334	15	1.4	1.1
DBS3316-470MT	47.0	$\pm 20\%$	100kHz	0.472	13	1.0	0.8

测试条件: 100KHz 0.1VrDMS. Test at 100KHz, 0.1VrDMS.

Isat: 加 Isat 时, 电感量下降 $\leq 10\%$ Inductance droD $\leq 10\%$ tyD.at rated Isat

IrDMS: 加 IrDMS 时, 器件温度升高 $\leq 15^{\circ}\text{C}$ $\Delta T \leq 15^{\circ}\text{C}$ rise tyD. at IrDMS.

DBS5022 Series

Dart Number	Inductance (μ H)	Tolerance	Test Freq.	DCR (Ω)Max	SRF (MHz)	Isat (A)	IrDMS (A)
DBS5022-100MT	10	$\pm 20\%$	100kHz	0.040	30	8.0	3.9
DBS5022-150MT	15	$\pm 20\%$	100kHz	0.048	20	7.0	3.4
DBS5022-220MT	22	$\pm 20\%$	100kHz	0.059	18	6.0	3.1
DBS5022-330MT	33	$\pm 20\%$	100kHz	0.075	14	5.0	2.8
DBS5022-470MT	47	$\pm 20\%$	100kHz	0.097	10	4.0	2.4
DBS5022-680MT	68	$\pm 20\%$	100kHz	0.138	9	3.0	2.0
DBS5022-101MT	100	$\pm 20\%$	100kHz	0.207	7	2.4	1.7
DBS5022-151MT	150	$\pm 20\%$	100kHz	0.293	6	2.1	1.3
DBS5022-221MT	220	$\pm 20\%$	100kHz	0.470	5	1.9	1.1
DBS5022-331MT	330	$\pm 20\%$	100kHz	0.780	4	1.1	0.86
DBS5022-471MT	470	$\pm 20\%$	100kHz	1.080	3	1.1	0.73
DBS5022-681MT	680	$\pm 20\%$	100kHz	1.400	2.5	0.96	0.64
DBS5022-102MT	1000	$\pm 20\%$	100kHz	2.010	2	0.80	0.53

测试条件: 100KHz 0.1VrDMS. Test at 100KHz, 0.1VrDMS.

Isat: 加 Isat 时, 电感量下降 $\leq 10\%$ Inductance droD $\leq 10\%$ tyD.at rated Isat

IrDMS: 加 IrDMS 时, 器件温度升高 $\leq 40^{\circ}\text{C}$ $\Delta T \leq 40^{\circ}\text{C}$ rise tyD. at IrDMS.

DMS 系列功率电感 DMS Series SMD Power Inductors



特征 FEATURES

- 大电流
- 屏蔽结构
- 适合于表面贴装, 适合于回流焊
- High saturation current
- Magnetic shielded
- SMT type, suitable for solder reflow

应用 APPLICATIONS

- 办公自动化设备, 笔记本电脑
- LCD 电视
- DC/DC 转换
- OA equipment , Notebook Computer
- LCD televisions
- DC/DC converters

产品规格型号表示方法 ORDERING CODE

DMS	127	—	101	M	T
①	②		③	④	⑤

① 产品代号 Code		② 规格尺寸 Dimensions (L×W×T) (mm)		③ 感量 Inductance (μH)		④ 误差 Tolerance		⑤ 包装方式 Packaging Style	
DM	DMS 系列	73	7.3×7.3×3.4	150	15	K	±10%	T	Tape&Reel
S	功率电感	74	7.3×7.3×4.5	101	100	M	±20%	B	Bulk
		104	10.0×10.0×4.0	102	1000				
		124	12.0×12.0×4.5						
		125	12.0×12.0×6.0						
		127	12.0×12.0×8.0						

外形尺寸 Dimensions

单位 (Unit): mm

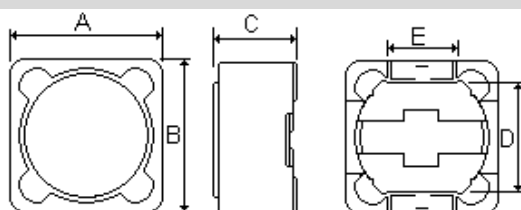


图 1: DMS73/74/124/125/127

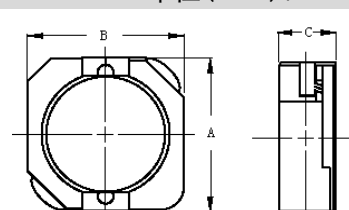


图 2: DMS104R

型号 Part	A	B	C	D	E
DMS73	7.3	7.3	3.4	5.8	2.0
DMS74	7.3	7.3	4.5	5.8	2.0
DMS104R	10.0	10.0	4.0	7.6	3.0
DMS124	12.0	12.0	4.5	7.6	5.0
DMS125	12.0	12.0	6.0	7.6	5.0
DMS127	12.0	12.0	8.0	7.6	5.0

电性能参数 Electrical Characteristics

DMS73 Series

Part Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω)Max	IDC(A)
DMS73-100MT	10	±20%	1kHz	0.072	1.68
DMS73-120MT	12	±20%	1kHz	0.098	1.52

Part Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω)Max	IDC(A)
DMS73-150MT	15	±20%	1kHz	0.130	1.33
DMS73-180MT	18	±20%	1kHz	0.140	1.20
DMS73-220MT	22	±20%	1kHz	0.190	1.07
DMS73-270MT	27	±20%	1kHz	0.210	0.96
DMS73-330MT	33	±20%	1kHz	0.240	0.91
DMS73-390MT	39	±20%	1kHz	0.320	0.77
DMS73-470MT	47	±20%	1kHz	0.360	0.76
DMS73-560MT	56	±20%	1kHz	0.470	0.68
DMS73-680MT	68	±20%	1kHz	0.520	0.61
DMS73-820MT	82	±20%	1kHz	0.690	0.57
DMS73-101MT	100	±20%	1kHz	0.790	0.50
DMS73-121MT	120	±20%	1kHz	0.890	0.49
DMS73-151MT	150	±20%	1kHz	1.270	0.43
DMS73-181MT	180	±20%	1kHz	1.450	0.39
DMS73-221MT	220	±20%	1kHz	1.650	0.35
DMS73-271MT	270	±20%	1kHz	2.310	0.32
DMS73-331MT	330	±20%	1kHz	2.620	0.28
DMS73-391MT	390	±20%	1kHz	2.940	0.26
DMS73-471MT	470	±20%	1kHz	4.180	0.24
DMS73-561MT	560	±20%	1kHz	4.670	0.22
DMS73-681MT	680	±20%	1kHz	5.730	0.19
DMS73-821MT	820	±20%	1kHz	6.540	0.18
DMS73-102MT	1000	±20%	1kHz	9.440	0.16

DMS74 Series

Part Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω)Max	IDC(A)
DMS74-100MT	10	±20%	1kHz	0.049	1.84
DMS74-120MT	12	±20%	1kHz	0.058	1.71
DMS74-150MT	15	±20%	1kHz	0.081	1.47
DMS74-180MT	18	±20%	1kHz	0.091	1.31
DMS74-220MT	22	±20%	1kHz	0.110	1.23
DMS74-330MT	33	±20%	1kHz	0.170	0.96
DMS74-390MT	39	±20%	1kHz	0.230	0.91
DMS74-470MT	47	±20%	1kHz	0.260	0.88
DMS74-560MT	56	±20%	1kHz	0.350	0.75
DMS74-680MT	68	±20%	1kHz	0.380	0.69
DMS74-820MT	82	±20%	1kHz	0.430	0.61
DMS74-101MT	100	±20%	1kHz	0.610	0.60
DMS74-121MT	120	±20%	1kHz	0.660	0.52
DMS74-151MT	150	±20%	1kHz	0.880	0.46
DMS74-181MT	180	±20%	1kHz	0.980	0.42
DMS74-221MT	220	±20%	1kHz	1.170	0.36
DMS74-271MT	270	±20%	1kHz	1.640	0.34
DMS74-331MT	330	±20%	1kHz	1.860	0.32
DMS74-391MT	390	±20%	1kHz	2.850	0.29
DMS74-471MT	470	±20%	1kHz	3.010	0.26
DMS74-561MT	560	±20%	1kHz	3.620	0.23
DMS74-681MT	680	±20%	1kHz	4.630	0.22
DMS74-821MT	820	±20%	1kHz	5.200	0.20
DMS74-102MT	1000	±20%	1kHz	6.000	0.18

DMS104R Series

Part Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω)Max	IDC(A)
DMS104R-1R5MT	1.5	±20%	100kHz	0.008	10.0
DMS104R-2R5MT	2.5	±20%	100kHz	0.010	7.50
DMS104R-3R8MT	3.8	±20%	100kHz	0.013	6.00
DMS104R-5R2MT	5.2	±20%	100kHz	0.022	5.50
DMS104R-7R0MT	7.0	±20%	100kHz	0.027	4.80
DMS104R-100MT	10	±20%	100kHz	0.035	4.40
DMS104R-150MT	15	±20%	100kHz	0.050	3.60
DMS104R-220MT	22	±20%	100kHz	0.073	2.90
DMS104R-330MT	33	±20%	100kHz	0.093	2.30
DMS104R-470MT	47	±20%	100kHz	0.128	2.10
DMS104R-680MT	68	±20%	100kHz	0.213	1.50
DMS104R-101MT	100	±20%	100kHz	0.304	1.35
DMS104R-151MT	150	±20%	100kHz	0.506	1.15
DMS104R-221MT	220	±20%	100kHz	0.756	0.92
DMS104R-331MT	330	±20%	100kHz	1.090	0.70

DMS124 Series

Part Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω)Max	IDC(A)
DMS124-3R9MT	3.9	±20%	100kHz	0.015	6.50
DMS124-4R7MT	4.7	±20%	100kHz	0.018	5.70
DMS124-6R8MT	6.8	±20%	100kHz	0.023	4.90
DMS124-100MT	10	±20%	100kHz	0.028	4.50
DMS124-120MT	12	±20%	100kHz	0.038	4.00
DMS124-150MT	15	±20%	100kHz	0.050	3.20
DMS124-180MT	18	±20%	100kHz	0.057	3.10
DMS124-220MT	22	±20%	100kHz	0.066	2.90
DMS124-270MT	27	±20%	100kHz	0.080	2.80
DMS124-330MT	33	±20%	100kHz	0.097	2.70
DMS124-390MT	39	±20%	100kHz	0.132	2.10
DMS124-470MT	47	±20%	100kHz	0.150	1.90
DMS124-560MT	56	±20%	100kHz	0.190	1.80
DMS124-680MT	68	±20%	100kHz	0.220	1.50
DMS124-820MT	82	±20%	100kHz	0.260	1.30
DMS124-101MT	100	±20%	100kHz	0.308	1.20
DMS124-121MT	120	±20%	100kHz	0.380	1.10
DMS124-151MT	150	±20%	100kHz	0.530	0.95
DMS124-181MT	180	±20%	100kHz	0.620	0.85
DMS124-221MT	220	±20%	100kHz	0.700	0.80
DMS124-271MT	270	±20%	100kHz	0.876	0.60
DMS124-331MT	330	±20%	100kHz	0.990	0.50

DMS125 Series

Part Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω)Max	IDC(A)
DMS125-1R3MT	1.3	±20%	7.96MHz	0.012	8.00
DMS125-2R1MT	2.1	±20%	7.96MHz	0.014	7.00
DMS125-3R1MT	3.1	±20%	7.96MHz	0.017	6.00
DMS125-4R4MT	4.4	±20%	7.96MHz	0.020	5.00
DMS125-5R8MT	5.8	±20%	7.96MHz	0.021	4.40
DMS125-7R5MT	7.5	±20%	7.96MHz	0.024	4.20
DMS125-100MT	10	±20%	1kHz	0.025	4.00

Part Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω)Max	IDC(A)
DMS125-120MT	12	±20%	1kHz	0.027	3.50
DMS125-150MT	15	±20%	1kHz	0.030	3.30
DMS125-180MT	18	±20%	1kHz	0.034	3.00
DMS125-220MT	22	±20%	1kHz	0.036	2.80
DMS125-270MT	27	±20%	1kHz	0.051	2.30
DMS125-330MT	33	±20%	1kHz	0.057	2.10
DMS125-390MT	39	±20%	1kHz	0.068	2.00
DMS125-470MT	47	±20%	1kHz	0.075	1.80
DMS125-560MT	56	±20%	1kHz	0.110	1.70
DMS125-680MT	68	±20%	1kHz	0.120	1.50
DMS125-820MT	82	±20%	1kHz	0.140	1.40
DMS125-101MT	100	±20%	1kHz	0.160	1.30
DMS125-121MT	120	±20%	1kHz	0.170	1.10
DMS125-151MT	150	±20%	1kHz	0.230	1.00
DMS125-181MT	180	±20%	1kHz	0.290	0.90
DMS125-221MT	220	±20%	1kHz	0.400	0.80
DMS125-271MT	270	±20%	1kHz	0.460	0.75
DMS125-331MT	330	±20%	1kHz	0.510	0.68
DMS125-391MT	390	±20%	1kHz	0.690	0.65
DMS125-471MT	470	±20%	1kHz	0.770	0.58
DMS125-561MT	560	±20%	1kHz	0.860	0.54
DMS125-681MT	680	±20%	1kHz	1.200	0.48
DMS125-821MT	820	±20%	1kHz	1.340	0.43
DMS125-102MT	1000	±20%	1kHz	1.530	0.40

DMS127 Series

Part Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω)Max	IDC(A)
DMS127-1R2MT	1.2	±20%	100kHz	0.007	9.80
DMS127-2R4MT	2.4	±20%	100kHz	0.0115	8.00
DMS127-3R5MT	3.5	±20%	100kHz	0.0135	7.50
DMS127-4R7MT	4.7	±20%	100kHz	0.0158	6.80
DMS127-6R1MT	6.1	±20%	100kHz	0.0176	6.60
DMS127-7R6MT	7.6	±20%	100kHz	0.0200	5.90
DMS127-100MT	10	±20%	1kHz	0.0216	5.40
DMS127-120MT	12	±20%	1kHz	0.0243	4.90
DMS127-150MT	15	±20%	1kHz	0.0270	4.50
DMS127-180MT	18	±20%	1kHz	0.0392	3.90
DMS127-220MT	22	±20%	1kHz	0.0432	3.60
DMS127-270MT	27	±20%	1kHz	0.0459	3.40
DMS127-330MT	33	±20%	1kHz	0.0648	3.00
DMS127-390MT	39	±20%	1kHz	0.0729	2.75
DMS127-470MT	47	±20%	1kHz	0.1000	2.50
DMS127-560MT	56	±20%	1kHz	0.110	2.35
DMS127-680MT	68	±20%	1kHz	0.140	2.10
DMS127-820MT	82	±20%	1kHz	0.160	1.95
DMS127-101MT	100	±20%	1kHz	0.220	1.70
DMS127-121MT	120	±20%	1kHz	0.250	1.60
DMS127-151MT	150	±20%	1kHz	0.280	1.42
DMS127-181MT	180	±20%	1kHz	0.350	1.30
DMS127-221MT	220	±20%	1kHz	0.390	1.16
DMS127-271MT	270	±20%	1kHz	0.560	1.06
DMS127-331MT	330	±20%	1kHz	0.640	0.95

Part Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω)Max	IDC(A)
DMS127-391MT	390	±20%	1kHz	0.700	0.88
DMS127-471MT	470	±20%	1kHz	0.980	0.79
DMS127-561MT	560	±20%	1kHz	1.070	0.73
DMS127-681MT	680	±20%	1kHz	1.460	0.67
DMS127-821MT	820	±20%	1kHz	1.640	0.60
DMS127-102MT	1000	±20%	1kHz	1.820	0.55

IDC: 加 IDC 时, 电感量下降≤25%, 器件温度升高≤40℃

Inductance drop ≤25% typ., ΔT≤40℃ rise typ. at rated Current.

DLBS 系列功率电感 DLBS Series SMD Power Inductors



特征 FEATURES

- 大电流
- 屏蔽结构
- 适合于表面贴装
- High saturation current
- Magnetic shielded
- SMT type

应用 APPLICATIONS

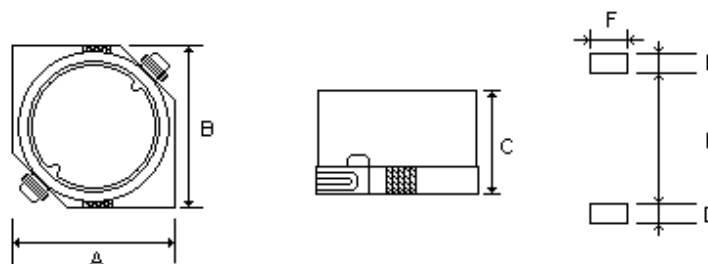
- 移动通信
- 笔记本电脑
- DC/DC 转换
- Portable communication equipment
- Notebook Computer
- DC/DC converters

产品规格型号表示方法 ORDERING CODE

DLBS		6028	—	150	M	T	
①		②		③	④	⑤	
①		②		③		④	⑤
产品代号		规格尺寸 Dimensions		电感量(μH)		误差	
Code		(L×W×T) (mm)		Inductance		Tolerance	
DLBS 系列 功率电感	DLBS 系	6028	6.0×6.0×2.8	150	15	K	±10%
	列	7030	7.0×7.0×3.0	101	100	M	±20%
	功率电感	7045	7.0×7.0×4.5	102	1000		
			10145	10.0×10.0×4.5			
						⑤	
						包装方式	
						Packaging Style	
						T	Tape&Reel
						B	Bulk

外形尺寸 Dimensions

单位 (Unit): mm



型号 Part	A	B	C	D	E	F
6028	6.0±0.2	6.0±0.2	2.8±0.2	1.5±0.2	4.0±0.2	2.2±0.2
7030	7.0±0.2	7.0±0.2	3.0±0.22	1.5±0.2	4.9±0.2	2.2±0.2
7045	7.0±0.2	7.0±0.2	4.5±0.3	1.5±0.2	4.9±0.2	2.2±0.2
10145	10.1±0.3	10.1±0.3	4.5±0.3	2.5±0.2	5.6±0.2	3.2±0.2

电性能参数 Electrical Characteristics

DLBS6028 Series

Part Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω) Max	Isat (A)	Irms (A)
DLBS6028-4R7MT	4.7	±20%	1kHz	0.054	1.60	2.50

Part Number	Inductance (μ H)	Tolerance	Test Freq.	DCR (Ω) Max	Isat (A)	Irms (A)
DLBS6028-6R8MT	6.8	$\pm 20\%$	1kHz	0.065	1.50	2.20
DLBS6028-100MT	10	$\pm 20\%$	1kHz	0.115	1.30	1.80
DLBS6028-150MT	15	$\pm 20\%$	1kHz	0.150	1.00	1.40
DLBS6028-220MT	22	$\pm 20\%$	1kHz	0.205	0.77	1.30
DLBS6028-330MT	33	$\pm 20\%$	1kHz	0.300	0.69	1.10
DLBS6028-470MT	47	$\pm 20\%$	1kHz	0.410	0.59	0.92
DLBS6028-680MT	68	$\pm 20\%$	1kHz	0.575	0.50	0.78
DLBS6028-101MT	100	$\pm 20\%$	1kHz	0.950	0.42	0.64

Isat: 加 Isat 时, 电感量下降 $\leq 30\%$ Inductance drop $\leq 30\%$ typ.at rated Isat.

Irms: 加 Irms 时, 器件温度升高 $\leq 25^{\circ}\text{C}$ $\Delta T \leq 25^{\circ}\text{C}$ rise typ. at Irms.

DLBS7030 Series

Part Number	Inductance (μ H)	Tolerance	Test Freq.	DCR (Ω) Max	Isat (A)
DLBS7030-3R3MT	3.3	$\pm 20\%$	1kHz	0.026	1.80
DLBS7030-4R7MT	4.7	$\pm 20\%$	1kHz	0.037	1.60
DLBS7030-6R8MT	6.8	$\pm 20\%$	1kHz	0.050	1.50
DLBS7030-100MT	10	$\pm 20\%$	1kHz	0.082	1.30
DLBS7030-150MT	15	$\pm 20\%$	1kHz	0.114	1.00
DLBS7030-220MT	22	$\pm 20\%$	1kHz	0.183	0.86
DLBS7030-330MT	33	$\pm 20\%$	1kHz	0.235	0.65
DLBS7030-470MT	47	$\pm 20\%$	1kHz	0.350	0.57
DLBS7030-680MT	68	$\pm 20\%$	1kHz	0.530	0.49
DLBS7030-101MT	100	$\pm 20\%$	1kHz	0.843	0.40
DLBS7030-151MT	150	$\pm 20\%$	1kHz	1.390	0.32
DLBS7030-221MT	220	$\pm 20\%$	1kHz	1.600	0.26
DLBS7030-331MT	330	$\pm 20\%$	1kHz	2.820	0.22
DLBS7030-471MT	470	$\pm 20\%$	1kHz	3.400	0.18
DLBS7030-681MT	680	$\pm 20\%$	1kHz	5.960	0.15
DLBS7030-102MT	1000	$\pm 20\%$	1kHz	7.800	0.12

Isat: 加 Isat 时, 电感量下降 $\leq 10\%$ Inductance drop $\leq 10\%$ typ.at rated Isat.

DLBS7045 Series

Part Number	Inductance (μ H)	Tolerance	Test Freq.	DCR (Ω) Max	Isat (A)	Irms (A)
DLBS7045-3R3MT	3.3	$\pm 20\%$	1kHz	0.020	2.50	2.30
DLBS7045-4R7MT	4.7	$\pm 20\%$	1kHz	0.030	2.00	2.10
DLBS7045-6R8MT	6.8	$\pm 20\%$	1kHz	0.039	1.70	1.74
DLBS7045-100MT	10	$\pm 20\%$	1kHz	0.058	1.30	1.78
DLBS7045-150MT	15	$\pm 20\%$	1kHz	0.065	1.10	1.53
DLBS7045-220MT	22	$\pm 20\%$	1kHz	0.070	0.90	1.34
DLBS7045-330MT	33	$\pm 20\%$	1kHz	0.098	0.82	1.09
DLBS7045-470MT	47	$\pm 20\%$	1kHz	0.206	0.75	0.92
DLBS7045-680MT	68	$\pm 20\%$	1kHz	0.283	0.60	0.77
DLBS7045-101MT	100	$\pm 20\%$	1kHz	0.350	0.50	0.65
DLBS7045-151MT	150	$\pm 20\%$	1kHz	0.445	0.40	0.55
DLBS7045-221MT	220	$\pm 20\%$	1kHz	0.595	0.33	0.45
DLBS7045-331MT	330	$\pm 20\%$	1kHz	0.912	0.25	0.37
DLBS7045-471MT	470	$\pm 20\%$	1kHz	1.330	0.22	0.31
DLBS7045-681MT	680	$\pm 20\%$	1kHz	2.020	0.20	0.27
DLBS7045-102MT	1000	$\pm 20\%$	1kHz	3.300	0.14	0.25

Isat: 加 Isat 时, 电感量下降 $\leq 10\%$ Inductance drop $\leq 10\%$ typ.at rated Isat.

Irms: 加 Irms 时, 器件温度升高 $\leq 20^{\circ}\text{C}$ $\Delta T \leq 20^{\circ}\text{C}$ rise typ. at Irms.

DLBS10145 Series

Part Number	Inductance (μ H)	Tolerance	Test Freq.	DCR (Ω) Max	Isat (A)	Irms (A)
DLBS10145-100MT	10	$\pm 20\%$	1kHz	0.054	3.00	2.50
DLBS10145-150MT	15	$\pm 20\%$	1kHz	0.067	2.40	2.20
DLBS10145-220MT	22	$\pm 20\%$	1kHz	0.073	2.10	1.90
DLBS10145-330MT	33	$\pm 20\%$	1kHz	0.135	1.60	1.70
DLBS10145-470MT	47	$\pm 20\%$	1kHz	0.175	1.40	1.50
DLBS10145-680MT	68	$\pm 20\%$	1kHz	0.249	1.20	1.30
DLBS10145-101MT	100	$\pm 20\%$	1kHz	0.460	1.00	1.10
DLBS10145-151MT	150	$\pm 20\%$	1kHz	0.606	0.79	0.81
DLBS10145-221MT	220	$\pm 20\%$	1kHz	0.787	0.65	0.70
DLBS10145-331MT	330	$\pm 20\%$	1kHz	1.350	0.54	0.58
DLBS10145-471MT	470	$\pm 20\%$	1kHz	1.800	0.47	0.47
DLBS10145-681MT	680	$\pm 20\%$	1kHz	2.790	0.38	0.38
DLBS10145-102MT	1000	$\pm 20\%$	1kHz	4.320	0.32	0.29
DLBS10145-152MT	1500	$\pm 20\%$	1kHz	5.270	0.22	0.26

Isat: 加 Isat 时, 电感量下降 $\leq 10\%$ Inductance drop $\leq 10\%$ typ.at rated Isat.

Irms: 加 Irms 时, 器件温度升高 $\leq 30^{\circ}\text{C}$ $\Delta T \leq 30^{\circ}\text{C}$ rise typ. at Irms.