

■ 绕线型片式陶瓷体电感器

Wire Wound Chip Ceramic Inductors

◆ 特征 Feature

- * 体积小, 适合高密度表面贴装
Small Size 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.
- * 精度高、Q 值高
High Q Value And Tight Inductance Tolerance.
- * 优良的焊接性和耐焊性
Excellent In Solder Ability And Heat Resistance.



◆ 应用 Application

- * 移动通信、PDA
Portable Communication Equipment And PDA.
- * 各种高频回路
High Speed Electronic Device.
- * 无线通信模块, 无线局域网 W-LAN.
RF Wireless Data Communication Module, W-LAN.

◆ 型号表示法 Part Number

FHD	0402	UC	068	J	S	T
①	②	③	④	⑤	⑥	⑦

① 产品类型 Product Type:

FHD: 绕线型片式电感器系列

FHD: Wire Wound Inductor Series

② 尺寸 Dimensions: 0402(1.0×0.5mm)、0603 (1.6×0.8mm)

③ 材料代号 Material Code: UC ---陶瓷芯 Ceramic Core

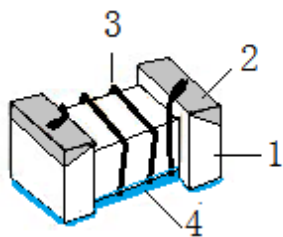
④ 标称电感量 Inductance: 1N0=1.0nH、010=10nH、R10=100nH、1R0=1.0μH

⑤ 标称电感值偏差 Tolerance: B---±0.1nH; C---±0.2nH; S---±0.3nH; D---±0.5nH; G---±2%; J---±5%; K---±10%; M---±20%

⑥ 电极表面镀层材料 Terminal: S---锡端头 Tin

⑦ 包装 Packaging: T: 编带包装 Tape & Reel

◆ 产品结构 Product Structure

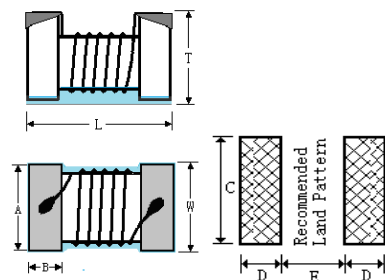


序号 No.	部位 Component	材料 Material
1	瓷芯 Core	陶瓷体 Al ₂ O ₃
2	电极 Electrode	锡 Sn
3	漆包线 wire	铜 Cu
4	封装层 encapsulation layer	树脂 UV Adhesive

◆规格尺寸 Dimension

单位 Unit: mm (inch)

Size	L (Max)	W (Max)	T (Max)	A(typ)	B(typ)	C(typ)	D(typ)	E(typ)
1005 (0402)	1.19 (0.047)	0.66 (0.026)	0.60 (0.024)	0.50 (0.020)	0.23 (0.009)	0.66 (0.026)	0.36 (0.014)	0.46 (0.018)
1608 (0603)	1.78 (0.070)	1.10 (0.043)	1.00 (0.039)	0.90 (0.035)	0.31 (0.012)	1.02 (0.040)	0.64 (0.025)	0.64 (0.025)



◆工作温度范围 Operating Temperature Range

工作温度范围: -40℃~+125℃

Operating Temperature Range: -40℃~+125℃

◆电性能参数 Electrical Characteristics

* 测试条件 Testing conditions

电感量/Q 值 Inductance/ Q: HP4286A 或 E4982A 电桥或等同测量仪器, 测试电压 500mV。HP4286A or E4982A bridge or equivalent measuring instrument, test voltage 500mV.

直流电阻 Rdc: HP4286A、RM3542 或等同测量仪器。HP4286A、RM3542 or equivalent measuring instrument.

额定电流 Rated current: 施加额定电流, 产品表面温升不超过 20℃。使用直流电流源、LCR 测试仪与温表测试。Apply the rated current, and the surface temperature rise of the product shall not exceed 20℃. Use a DC current source, LCR tester, and temperature gauge for testing.

0402 Type

型号 Part NO	电感量 Inductance (nH)	偏差范围 Tolerance	Q 值 Q (Min)	自谐振频率 SRF (MHZ) Min	最大直流电阻 Rdc (Ω) Max	额定电流 Idc(mA) Max
FHD0402UC1N0□ST	1.0@250MHz	B,C,S,D,K	13@250MHz	10000	0.045	1360
FHD0402UC1N2□ST	1.2@250MHz	B,C,S,D,K	8@250MHz	10000	0.135	640
FHD0402UC1N8□ST	1.8@250MHz	C,S,D,K	16@250MHz	6000	0.070	1040
FHD0402UC1N9□ST	1.9@250MHz	C,S,D,K	16@250MHz	6000	0.070	1040
FHD0402UC2N0□ST	2.0@250MHz	C,S,D,K	18@250MHz	6000	0.070	1040
FHD0402UC2N2□ST	2.2@250MHz	C,S,D,K	18@250MHz	6000	0.070	960
FHD0402UC2N4□ST	2.4@250MHz	C,S,D,K	16@250MHz	6000	0.080	790
FHD0402UC2N5□ST	2.5@250MHz	C,S,D,K	15@250MHz	6000	0.120	640
FHD0402UC2N7□ST	2.7@250MHz	C,S,D,K	15@250MHz	6000	0.120	640
FHD0402UC2N9□ST	2.9@250MHz	C,S,D,K	8@250MHz	6000	0.300	400
FHD0402UC3N0□ST	3.0@250MHz	C,S,D,K	8@250MHz	6000	0.300	400
FHD0402UC3N3□ST	3.3@250MHz	C,S,D,K	20@250MHz	6000	0.066	840
FHD0402UC3N6□ST	3.6@250MHz	B,C,S,D,J,K	20@250MHz	6000	0.066	840
FHD0402UC3N9□ST	3.9@250MHz	B,C,S,D,J,K	20@250MHz	6000	0.066	840
FHD0402UC4N0□ST	4.0@250MHz	B,C,S,D,J,K	20@250MHz	6000	0.066	840
FHD0402UC4N2□ST	4.2@250MHz	B,C,S,D,J,K	20@250MHz	6000	0.091	700

FHD0402UC4N3□ST	4.3@250MHz	C,S,D,J,K	20@250MHz	6000	0.091	700
FHD0402UC4N7□ST	4.7@250MHz	B,C,S,D,J,K	18@250MHz	4500	0.200	640
FHD0402UC5N1□ST	5.1@250MHz	B,C,S,D,J,K	18@250MHz	4800	0.083	800
FHD0402UC5N6□ST	5.6@250MHz	C,S,D,J,K	20@250MHz	4800	0.083	760
FHD0402UC6N2□ST	6.2@250MHz	C,S,D,J,K	23@250MHz	4800	0.083	760
FHD0402UC6N8□ST	6.8@250MHz	G,J,K	23@250MHz	4800	0.260	680
FHD0402UC7N5□ST	7.5@250MHz	G,J,K	23@250MHz	4800	0.100	680
FHD0402UC8N2□ST	8.2@250MHz	G,J,K	25@250MHz	4400	0.100	680
FHD0402UC8N7□ST	8.7@250MHz	G,J,K	25@250MHz	4100	0.200	480
FHD0402UC9N0□ST	9.0@250MHz	G,J,K	25@250MHz	4160	0.100	680
FHD0402UC9N5□ST	9.5@250MHz	G,J,K	25@250MHz	4000	0.200	480
FHD0402UC010□ST	10@250MHz	G,J,K	25@250MHz	3900	0.200	480
FHD0402UC011□ST	11@250MHz	G,J,K	25@250MHz	3680	0.120	640
FHD0402UC012□ST	12@250MHz	J,K	25@250MHz	3600	0.120	640
FHD0402UC013□ST	13@250MHz	G,J,K	25@250MHz	3450	0.210	440
FHD0402UC015□ST	15@250MHz	G,J,K	25@250MHz	3280	0.300	560
FHD0402UC016□ST	16@250MHz	G,J,K	25@250MHz	3100	0.220	560
FHD0402UC018□ST	18@250MHz	G,J,K	25@250MHz	3100	0.230	420
FHD0402UC019□ST	19@250MHz	G,J,K	25@250MHz	3040	0.200	480
FHD0402UC020□ST	20@250MHz	G,J,K	25@250MHz	3000	0.250	420
FHD0402UC022□ST	22@250MHz	G,J,K	25@250MHz	2800	0.300	400
FHD0402UC023□ST	23@250MHz	G,J,K	22@250MHz	2720	0.380	310
FHD0402UC024□ST	24@250MHz	G,J,K	25@250MHz	2700	0.300	400
FHD0402UC027□ST	27@250MHz	G,J,K	24@250MHz	2480	0.520	280
FHD0402UC030□ST	30@250MHz	G,J,K	25@250MHz	2350	0.500	400
FHD0402UC033□ST	33@250MHz	G,J,K	24@250MHz	2350	0.650	350
FHD0402UC036□ST	36@250MHz	G,J,K	25@250MHz	2320	0.600	250
FHD0402UC039□ST	39@250MHz	G,J,K	25@250MHz	2100	0.750	200
FHD0402UC040□ST	40@250MHz	G,J,K	25@250MHz	2240	0.600	220
FHD0402UC043□ST	43@250MHz	J,K	25@250MHz	2030	0.810	100
FHD0402UC047□ST	47@250MHz	G,J,K	25@250MHz	2100	0.830	150
FHD0402UC051□ST	51@250MHz	J,K	25@250MHz	1750	0.820	100
FHD0402UC056□ST	56@250MHz	G,J,K	25@250MHz	1760	0.970	100
FHD0402UC062□ST	62@250MHz	G,J,K	25@250MHz	1620	1.120	100
FHD0402UC068□ST	68@250MHz	G,J,K	25@250MHz	1620	1.120	100
FHD0402UC075□ST	75@250MHz	G,J,K	25@250MHz	1400	1.630	50
FHD0402UC082□ST	82@250MHz	G,J,K	25@250MHz	1260	1.700	50
FHD0402UCR10□ST	100@250MHz	G,J,K	25@250MHz	1160	2.000	30
FHD0402UCR12□ST	120@250MHz	G,J,K	25@250MHz	1100	2.200	30

0603Type

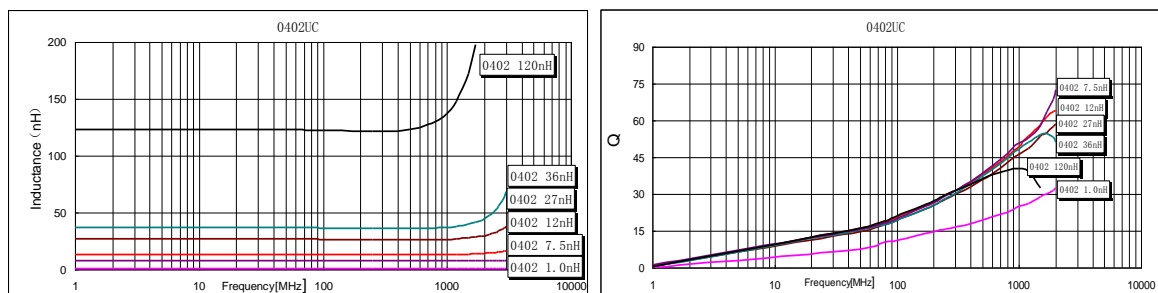
型号 Part NO	电感量 Inductance (nH)	偏差范围 Tolerance	Q 值 Q (Min)	自谐振频率 SRF (MHZ) Min	最大直流电阻 Rdc (Ω) Max	额定电流 Idc(mA) Max
FHD0603UC1N6□ST	1.6@250MHz	C,S,D,K	18@250MHz	12500	0.040	700
FHD0603UC1N7□ST	1.7@250MHz	B,C,S,D,K	18@250MHz	12500	0.045	700
FHD0603UC1N8□ST	1.8@250MHz	C,S,D,K	16@250MHz	12500	0.045	700
FHD0603UC2N0□ST	2.0@250MHz	C,S,D,K	12@250MHz	10000	0.090	700
FHD0603UC2N2□ST	2.2@250MHz	C,S,D,K	12@250MHz	10000	0.090	700
FHD0603UC3N3□ST	3.3@250MHz	S,D,K	20@250MHz	5900	0.075	700
FHD0603UC3N6□ST	3.6@250MHz	B,C,S,D,K	22@250MHz	5900	0.075	700
FHD0603UC3N9□ST	3.9@250MHz	B,C,S,D,K	22@250MHz	6900	0.080	700
FHD0603UC4N3□ST	4.3@250MHz	B,C,S,D,K	22@250MHz	5900	0.075	700
FHD0603UC4N7□ST	4.7@250MHz	B,C,S,D,K	20@250MHz	5800	0.116	700
FHD0603UC5N1□ST	5.1@250MHz	B,C,S,D,K	20@250MHz	5700	0.120	700
FHD0603UC6N0□ST	6.0@250MHz	C,S,D,K	27@250MHz	5700	0.110	700
FHD0603UC6N2□ST	6.2@250MHz	C,S,D,K	27@250MHz	5700	0.110	700
FHD0603UC6N8□ST	6.8@250MHz	G,J,K	27@250MHz	5800	0.110	700
FHD0603UC7N5□ST	7.5@250MHz	G,J,K	28@250MHz	4800	0.110	700
FHD0603UC8N2□ST	8.2@250MHz	G,J,K	28@250MHz	4700	0.120	700
FHD0603UC8N7□ST	8.7@250MHz	G,J,K	28@250MHz	4600	0.120	700
FHD0603UC9N1□ST	9.1@250MHz	G,J,K	26@250MHz	4500	0.150	700
FHD0603UC9N5□ST	9.5@250MHz	G,J,K	26@250MHz	5400	0.150	700
FHD0603UC010□ST	10@250MHz	G,J,K	31@250MHz	4800	0.130	700
FHD0603UC011□ST	11@250MHz	G,J,K	33@250MHz	4000	0.130	700
FHD0603UC012□ST	12@250MHz	G,J,K	35@250MHz	4000	0.130	700
FHD0603UC013□ST	13@250MHz	G,J,K	30@250MHz	4000	0.140	700
FHD0603UC014□ST	14@250MHz	G,J,K	35@250MHz	4000	0.140	700
FHD0603UC015□ST	15@250MHz	G,J,K	30@250MHz	4000	0.150	700
FHD0603UC016□ST	16@250MHz	G,J,K	34@250MHz	3300	0.160	700
FHD0603UC018□ST	18@250MHz	G,J,K	35@250MHz	3100	0.170	700
FHD0603UC020□ST	20@250MHz	G,J,K	38@250MHz	3000	0.190	700
FHD0603UC022□ST	22@250MHz	G,J,K	38@250MHz	3000	0.190	700
FHD0603UC024□ST	24@250MHz	G,J,K	37@250MHz	2650	0.200	700
FHD0603UC025□ST	25@250MHz	G,J,K	38@250MHz	2600	0.210	700
FHD0603UC027□ST	27@250MHz	G,J,K	36@250MHz	2800	0.220	600
FHD0603UC030□ST	30@250MHz	G,J,K	37@250MHz	2250	0.220	600
FHD0603UC033□ST	33@250MHz	G,J,K	36@250MHz	2300	0.220	600
FHD0603UC036□ST	36@250MHz	G,J,K	36@250MHz	2080	0.250	600
FHD0603UC039□ST	39@250MHz	G,J,K	40@250MHz	2200	0.250	600
FHD0603UC043□ST	43@250MHz	G,J,K	36@250MHz	2000	0.280	600
FHD0603UC047□ST	47@200MHz	G,J,K	36@200MHz	2000	0.280	600
FHD0603UC049□ST	49@200MHz	G,J,K	36@200MHz	2000	0.280	600

FHD0603UC050□ST	50@200MHz	G,J,K	36@200MHz	1900	0.295	600
FHD0603UC051□ST	51@200MHz	G,J,K	36@200MHz	1900	0.300	600
FHD0603UC056□ST	56@200MHz	G,J,K	38@200MHz	1900	0.280	600
FHD0603UC068□ST	68@200MHz	G,J,K	36@200MHz	1700	0.340	600
FHD0603UC072□ST	72@150MHz	G,J,K	34@150MHz	1700	0.530	400
FHD0603UC075□ST	75@150MHz	G,J,K	30@150MHz	1400	0.600	400
FHD0603UC082□ST	82@150MHz	G,J,K	34@150MHz	1700	0.550	400
FHD0603UC091□ST	91@150MHz	G,J,K	30@150MHz	1400	0.630	400
FHD0603UCR10□ST	100@150MHz	G,J,K	30@150MHz	1400	0.630	400
FHD0603UCR11□ST	110@150MHz	G,J,K	32@150MHz	1350	0.670	300
FHD0603UCR12□ST	120@150MHz	G,J,K	32@150MHz	1300	0.730	300
FHD0603UCR15□ST	150@150MHz	G,J,K	28@150MHz	990	0.800	280
FHD0603UCR16□ST	160@100MHz	G,J,K	25@100MHz	990	1.250	250
FHD0603UCR18□ST	180@100MHz	G,J,K	25@100MHz	990	1.450	240
FHD0603UCR20□ST	200@100MHz	G,J,K	25@100MHz	900	1.550	200
FHD0603UCR22□ST	220@100MHz	G,J,K	25@100MHz	900	2.100	200
FHD0603UCR25□ST	250@100MHz	G,J,K	25@100MHz	822	3.550	120
FHD0603UCR27□ST	270@100MHz	G,J,K	24@100MHz	900	2.300	170
FHD0603UCR30□ST	300@100MHz	G,J,K	24@100MHz	1000	3.000	100
FHD0603UCR33□ST	330@100MHz	G,J,K	25@100MHz	900	3.890	100
FHD0603UCR39□ST	390@100MHz	G,J,K	25@100MHz	800	4.350	100
FHD0603UCR47□ST	470@100MHz	G,J,K	25@100MHz	700	7.000	75

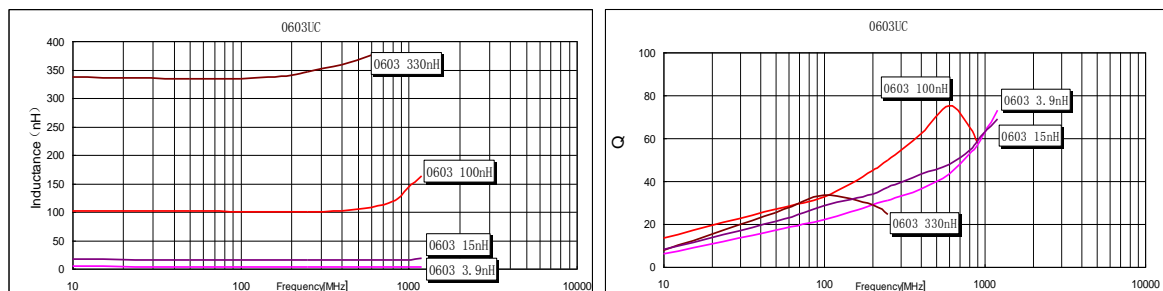
注：可根据客户需求做定制产品。 Note: Customized products can be made according to customer needs.

◆产品特性曲线图 Product Characteristic Curve

0402 Type



0603 Type



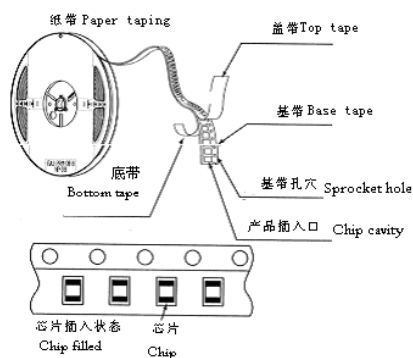
◆可靠性测试方法 Reliability Test Method

序号 No.	项目 Items	要求 Requirements	试验方法及备注 Test Methods and Remarks								
1	可焊性 Solder Ability	①外观无可见损伤痕迹； No visible mechanical damage. ②端电极表面焊锡覆盖率（不包含焊点）。 Electrode surface solder coverage （Except exposed wire）. FHD-UC series: ≥90%。	在 245±3℃熔融的焊锡（96.5%Sn/3.0%Ag/0.5%Cu）中浸置 3±0.3s。 Dip pads in flux and dip in solder pot(96.5Sn/3.0Ag/0.5Cu)at 245±3℃ for 3±0.3s.								
2	耐焊接热 Resistance To Soldering	①外观无可见损伤痕迹； No visible mechanical damage. ②感量变化不超过±5%； Inductance shall not change more than ±5%； ③Q 值变化不超过±20%。 Q shall not change more than±20%.	在 260±5℃熔融的焊锡（96.5%Sn/3.0%Ag/0.5%Cu）中浸置 10±1s。 Dip pads in flux and dip in solder pot(96.5Sn/3.0Ag/0.5Cu)at 260±5℃ for 10±1s.								
3	振动 Vibration	①外观无可见损伤痕迹； No visible mechanical damage. ②感量变化不超过±5%； Inductance shall not change more than ±5%； ③Q 值变化不超过±20%。 Q shall not change more than±20%.	振幅 1.5mm，频率 10Hz ~55Hz~10Hz（1 min.），每个方向(X、Y、Z)保持 2 小时。 Frequency 10Hz to 55Hz to 10Hz in a period of 1 minute.for 2h in each of three(X、Y、Z) axes.								
4	端电极强度 Adhesion Of Electrode	①试验后端电极无脱落； The end electrode did not fall off after the test. ②外观无可见损伤痕迹。 No visible mechanical damage.	将产品焊在 PCB 板上，按下图、表所示方向及要求施加作用力。Weld the product on the PCB board, and apply force as shown in the diagram, direction and requirement. <div><table><tr><th>尺寸规格 Size</th><th>施加力要求</th></tr><tr><td>0402 Series</td><td>5 N</td></tr><tr><td>0603 Series</td><td>7 N</td></tr><tr><td colspan="2">Keep time: (10±1)s</td></tr></table></div>	尺寸规格 Size	施加力要求	0402 Series	5 N	0603 Series	7 N	Keep time: (10±1)s	
尺寸规格 Size	施加力要求										
0402 Series	5 N										
0603 Series	7 N										
Keep time: (10±1)s											
5	耐低温 Low Temperature Resistance	①外观无可见损伤痕迹； No visible mechanical damage. ②感量变化不超过±5%； Inductance shall not change more than ±5%； ③Q 值变化不超过±20%。 Q shall not change more than±20%.	产品放置于温度-40±2℃的环境中存放 1000h Shall be subjected to-40±2℃ for 1000h								

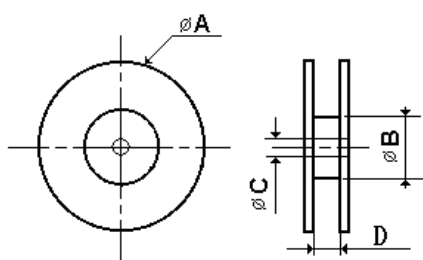
6	耐高温 High Temperature Resistance	①外观无可见损伤痕迹; No visible mechanical damage. ②感量变化不超过±5%; Inductance shall not change more than ±5%; ③Q 值变化不超过±20%。 Q shall not change more than±20%.	产品放置于温度+125±5℃的环境中存放 1000h Shall be subjected to +125±5℃ for1000h
7	温度冲击 Temperature Shock	①外观无可见损伤痕迹; No visible mechanical damage. ②感量变化不超过±5%; Inductance shall not change more than ±5%; ③Q 值变化不超过±20%。 Q shall not change more than±20%.	+125℃ 30 分钟 ↔ -40℃ 30 分钟, 循环 100 次; +125℃ 30minutes ↔ -40℃ 30minutes 100 Cycles.
8	高温负载 High Temperature Load	①外观无可见损伤痕迹; No visible mechanical damage. ②感量变化不超过±5%; Inductance shall not change more than ±5%; ③Q 值变化不超过±20%。 Q shall not change more than±20%.	产品加额定电流在 125±2℃温度条件下存放 1000h shall be store at 125±2℃ for 1000h with rated current applied.
9	恒定湿热 Static Humidity	①外观无可见损伤痕迹; No visible mechanical damage. ②感量变化不超过±5%; Inductance shall not change more than ±5%; ③Q 值变化不超过±20%。 Q shall not change more than±20%.	将电感器放置于湿度 90%~95%RH,温度 60±2℃的环境中存放 1000h Inductors shall be subjected to 90%~95%RH. at 60±2℃ for 1000h
10	抗弯强度 Bending Strength	外观无可见损伤痕迹; No visible mechanical damage.	①将电感器安装于试验基板上; 在垂直方向施加力。Install the inductor on the test substrate; Apply force in the vertical direction. ②该板应在 (1±0.5) mm/s 的弯曲速率向下弯曲 (2±0.2) mm, 保持时间 (30±1) s。The epoxy plate should bend down to (2±0.2) mm at the bending rate of (1±0.5) mm/s, Keep time (30±1) sec.

◆包装 Packaging

* 编带图 Taping drawings

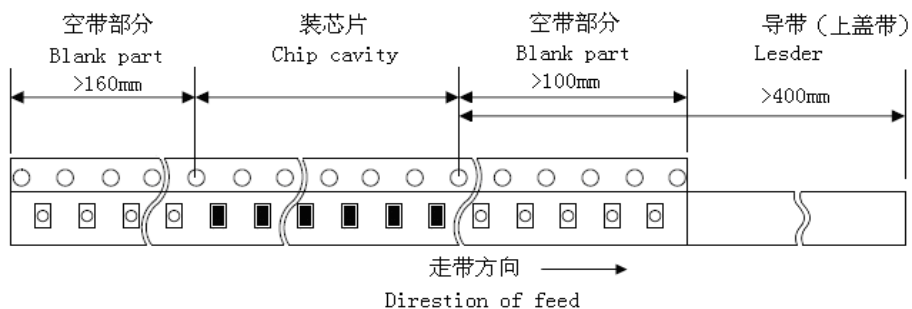


* 卷盘尺寸 Reel dimensions (Unit:mm)



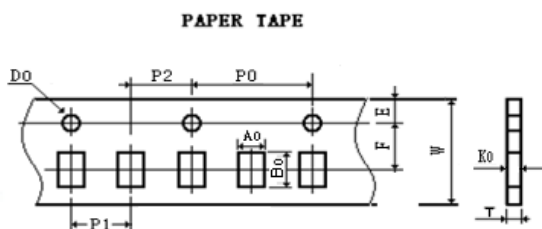
Part NO.	ΦA typ.	ΦB typ.	ΦC typ.	D typ.
0402-0603	178	60	13	8.4

* 导带及空格部分 Leader and blank portion



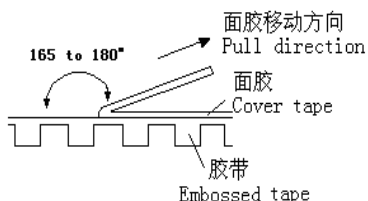
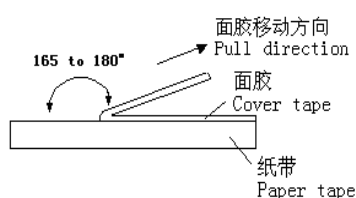
* 编带尺寸 Taping dimensions (Unit: mm)

纸带 Paper tape



Part NO.	W	E	F	D0	P0	P1	P2	P0×10	A0	B0	K0	T
0402	8.00	1.75	3.50	1.55	4	2	2	40	0.66	1.20	0.60	0.75
0603	8.00	1.75	3.50	1.55	4	4	2	40	1.20	1.90	1.05	1.15

* 剥离力检验 Peeling off force



盖带的剥离力要求 Peeling required

0402~0603 series : 10g~80g

测试条件 Test condition

盖带剥离速度: 300mm/min \pm 10%

Speed of peeling off : 300mm/min \pm 10%

盖带剥离角度: 165° ~180°

Angle of peeling off: 165°~180°

* 包装数量 (单位: 粒) Packaging number (Unit: Pcs)

尺寸 Size		0402	0603
每卷数量 Per Reel		5000	4000
每盒数量 Per Box	3 卷盒	15000	12000
	5 卷盒	25000	20000
	10 卷盒	50000	40000
每箱数量 Per Case	1.5 盒箱	75000	60000
	2 盒箱	100000	80000
	3 盒箱	150000	120000
	4 盒箱	200000	160000
	6 盒箱	300000	240000

◆推荐焊接条件 Recommended Soldering Conditions

* 焊接条件 Soldering Conditions

本产品使用回流焊接法。

Applicable soldering process to the products is reflow soldering.

* 焊剂要求 Flux, Solder

使用松香基助焊剂, 禁止使用卤化物含量超过 0.2(wt)%的强酸性助焊剂。

Don't use highly acidic flux with halide content exceeding 0.2(wt)%(chlorine conversion value).

使用无铅焊料(96.5Sn /3.0Ag/0.5Cu)。

Using lead-free solder (96.5Sn /3.0Ag/0.5Cu)。

* 焊接要求 Soldering conditions

预热时, 产品表温与焊料温度的温差最大不允许超出 150℃, 焊接完冷却时, 产品表温与溶剂温度之间的温差最大不超过 100℃。预热不足有可能引发产品表面裂纹, 从而导致产品品质下降。

Pre-heating should be in such a way that the temperature difference between solder and ferrite surface is limited to 150℃ max. Also cooling into solvent after soldering should be in such way that the temperature difference is limited to 100℃ max. Un-enough pre-heating may cause cracks on the ferrite, resulting in the deterioration of product quality.

产品要在以下画出的曲线允许的范围进行焊接。其它焊接条件可能引起产品电极的腐蚀。当焊接重复时, 允许的时间为第一次做的累计时间。

Products should be soldered within the following allowable range indicated by the slanted line. The excessive soldering conditions may cause the corrosion of the electrode. When soldering is repeated, allowable time is the accumulated time.

* 回流焊曲线 Reflow soldering profile

预热条件: 150~200°C/60~120 秒

Preheat condition: 150 ~200°C/60~120sec

最大温度: 260°C

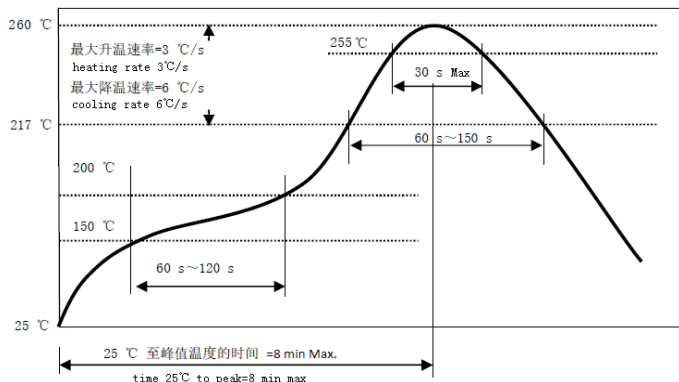
max temp: 260 °C

最高温的最大时间: 10 秒

max time at max temp: 10 sec

回流焊次数: 最多 3 次

Allowed Reflow time: 3x max



* 手工焊接 Iron soldering

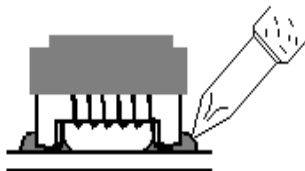
烙铁温度: 350°C (Max)

功率: 最大为 30W

烙铁停留时间: <5S (注意不要将烙铁碰到产品线圈及封装层)。

Perform soldering at 350°C on 30W max.

Soldering Time: < 5S (Take care not to apply the tip of the soldering iron to the terminal electrodes)。



◆ 贮存方法 Storage Methods

* 存储期限 Storage period

距电感公司出厂检验时间 1 年内正常使用。若时间超过 1 年，应检查焊接性能后方可使用。

Please use the products within 1 year since the factory inspection before the delivery, the welding performance should be checked before use if the storage time exceeds 1year.

* 存储条件 Storage conditions

存放货物的库房应满足以下条件: 温度: -10 ~ +40°C, 相对湿度: 30 ~ 70%。

Products should be storage in the warehouse on the following conditions:

Temperature : -10~+40°C Humidity: 30~70% relative humidity

* 禁止将产品保管在腐蚀性物质中, 如硫磺、氯气或酸, 否则将引起端头氧化, 导致降低焊接性。Don't keep products in corrosive gases such as sulfur, chlorine gas or acid, or it may case oxidization of Electrodes resulting in poor solder ability.

* 为了避免受潮气、灰尘等物质的影响, 产品应保管于货架上。

Products should be stored on the palette for the prevention of the influence from humidity, dust and so on.

* 产品保管在库房中, 应避免热冲击、振动以及直接光照等等。

Products should be stored in the warehouse without heat shock, vibration, direct sunlight and so on.

* 产品应密封包装。

Products should be stored under the airtight packaged condition.

◆使用注意事项 Precautions For Use

- * 本承诺书保证我司产品作为一个单体时的质量情况，当我司产品被安装到贵司产品上时请保证贵司的产品已根据贵司的规范进行了有效评价和确认。





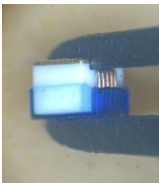



This product specification guarantees the quality of our product as a single unit, Please make sure that your product has been evaluated and confirmed against your specifications when our product is mounted to your product.

- * 如果贵司对我司产品的试用已超过了本测试规范所界定的产品功能，对于此所引发的失效我司将不予保证。

We can't warrant against failure caused by any use of our product that deviates from the intended use as described in this product specification.

- * 为防止断线，请不要使用锋利的物体接触线圈，如镊子。

Do not touch wire with sharp objects such as tweezers to prevent wire breakage.

正确方法 Correct method (夹端头两端 Tweezers should support on both sides of the chip)	错误方法 Wrongly method (夹到产品线圈 Tweezers should not support on enameled wire of the chip)		
 	 	 	 

[illegible]

Note: The above content is the specification of products, Fenghua reserves the right to modify this content without prior notice, and any product changes will be notified to customers via PCN.