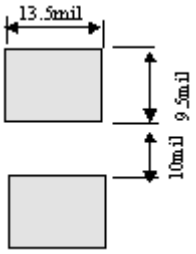
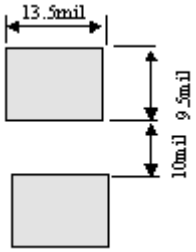
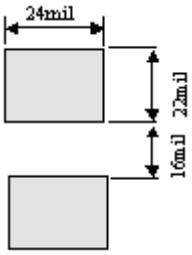
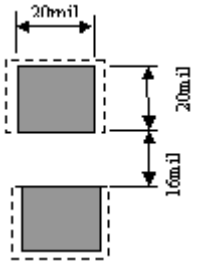
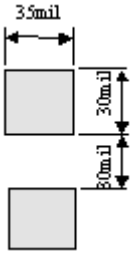
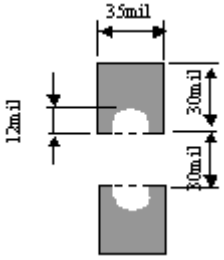
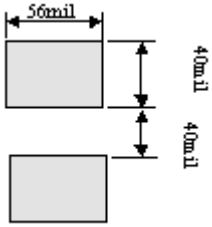
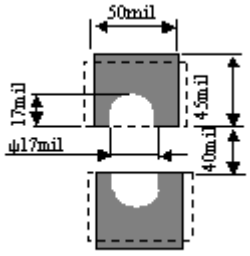
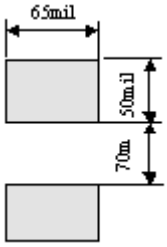
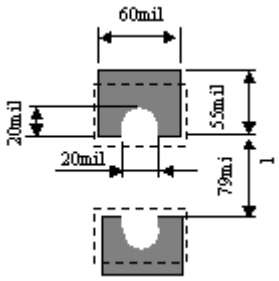
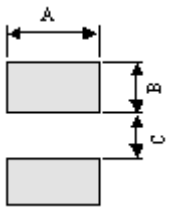
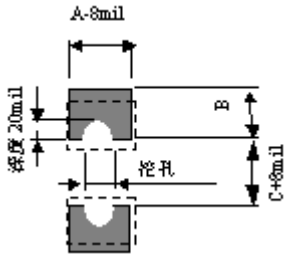
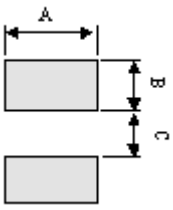
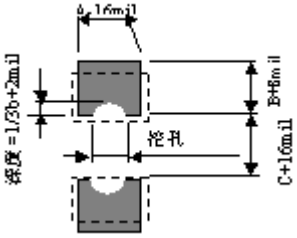
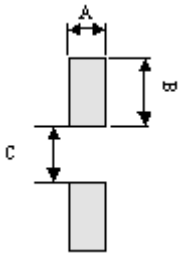
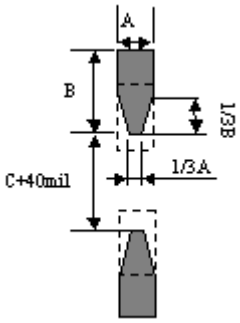
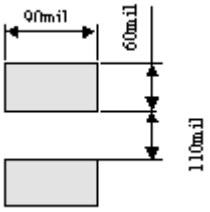
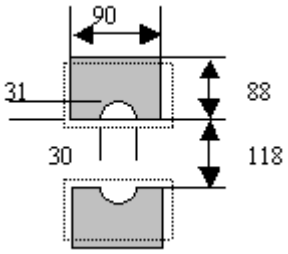
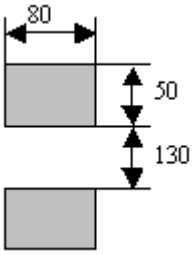
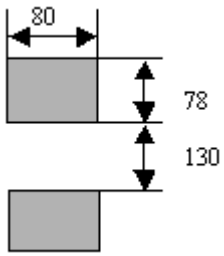
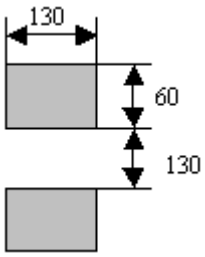
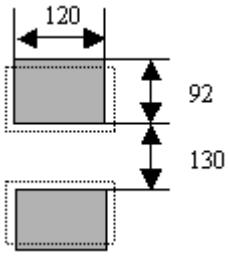
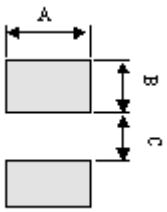
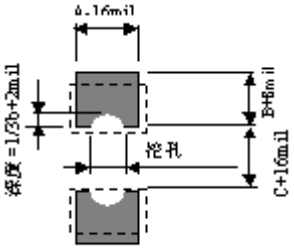
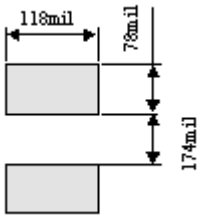
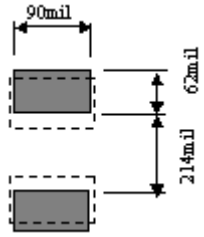
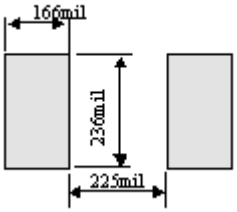
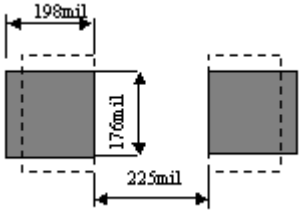
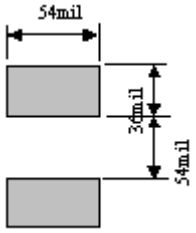
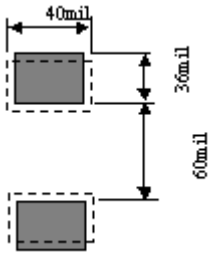
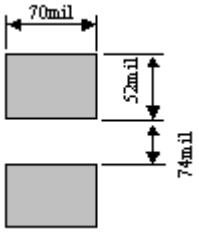
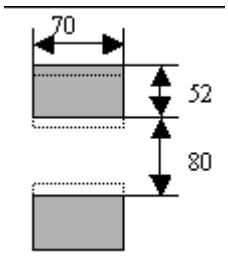
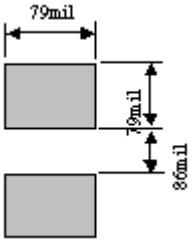
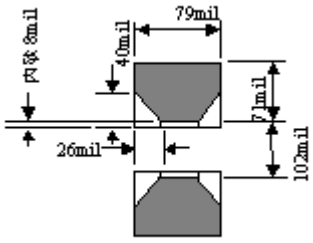
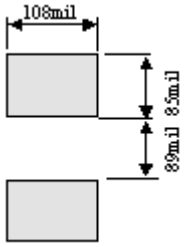
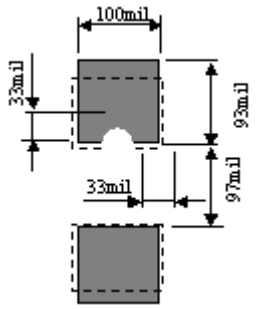
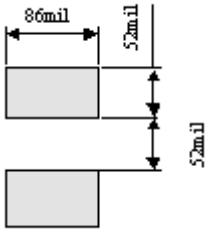
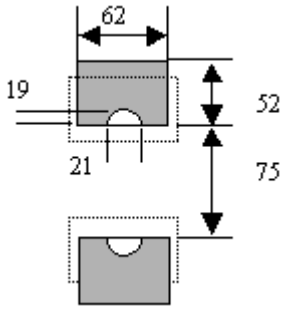
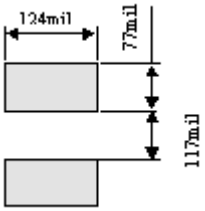
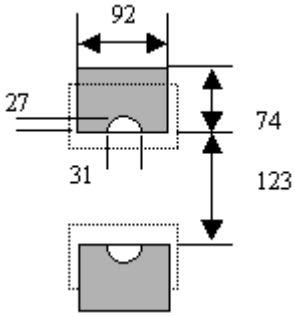
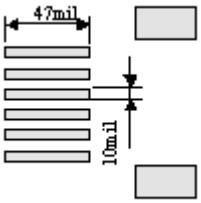
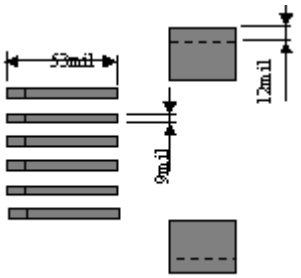
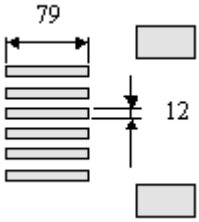
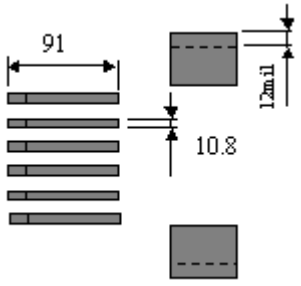
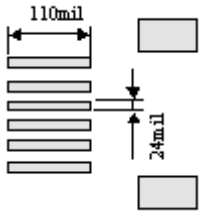
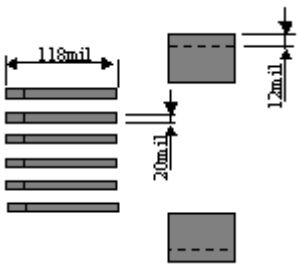
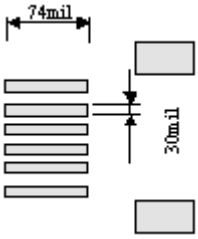
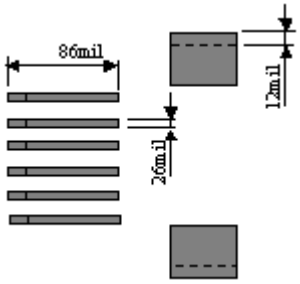
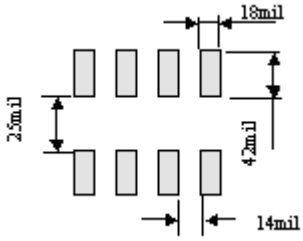
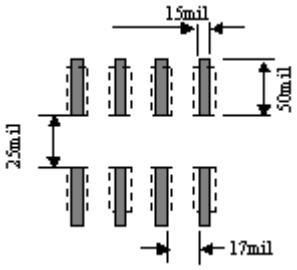
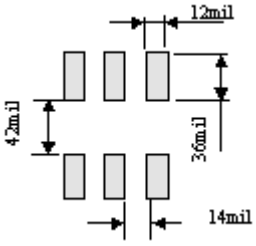
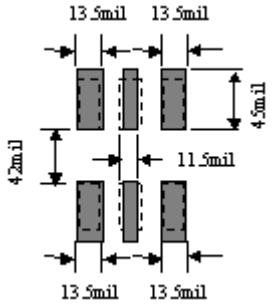
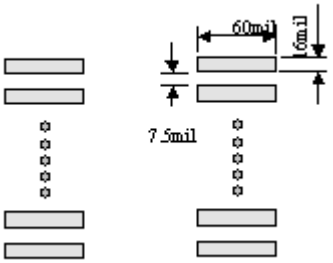
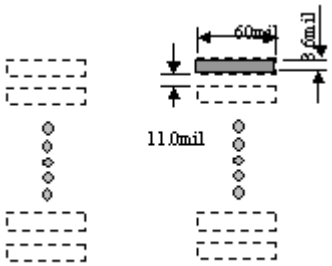
SMD 元件焊盘尺寸设计参考

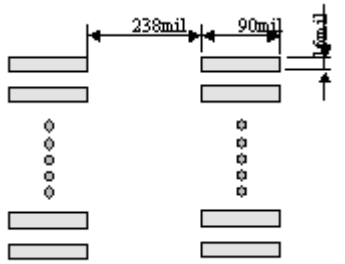
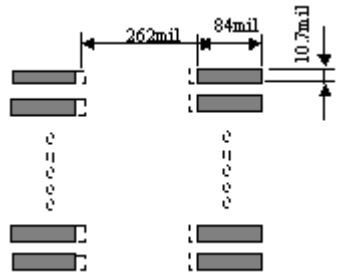
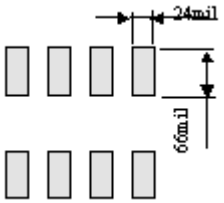
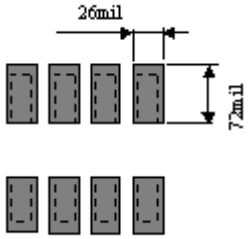
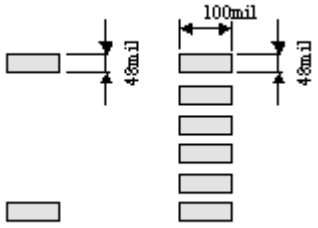
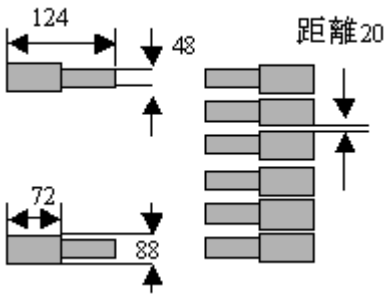
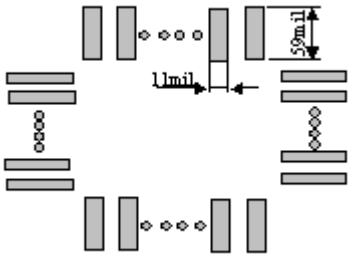
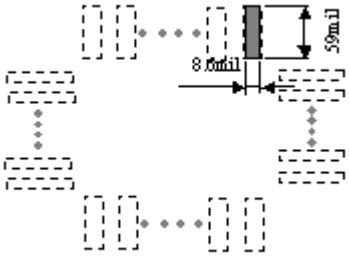
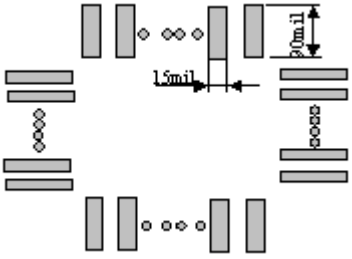
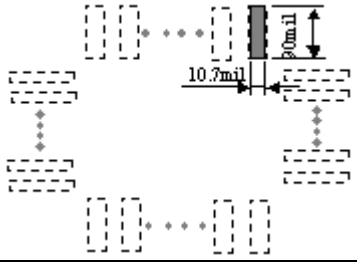
序号	元件类型	PAD 尺寸	对应钢板开孔尺寸	说明
1	0201 chip			X： →13.5mil Y： →9.5mil 开孔尺寸不变
2	0402 chip			X： 24→20mil Y： 22→20mil 内距不变
3	0603 chip			X、Y、内距都不变 半圆槽直径→17mil
4	0805 chip			X：56→50mil Y：40→45mil 半圆槽直径→17mil
5	1206 chip			X：65→60mil Y：50→55mil 半圆槽直径→20mil 内距:79mil

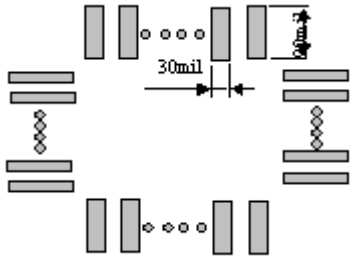
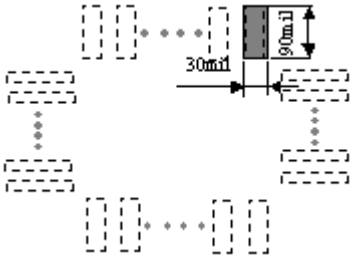
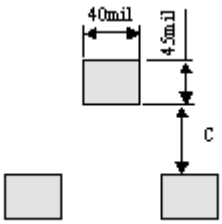
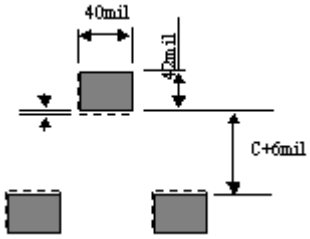
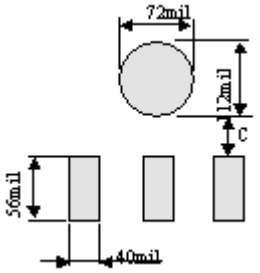
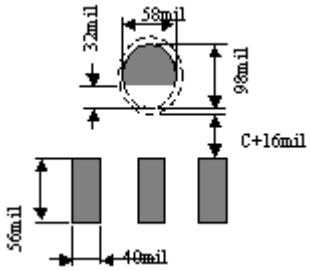
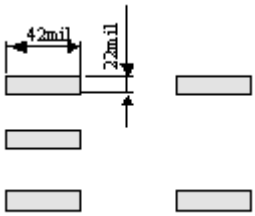
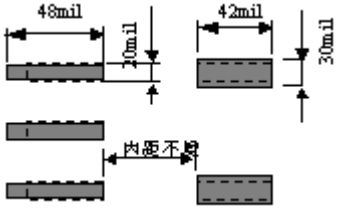
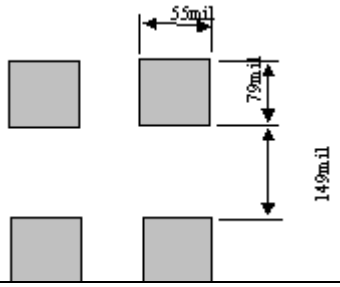
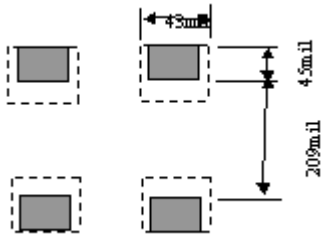
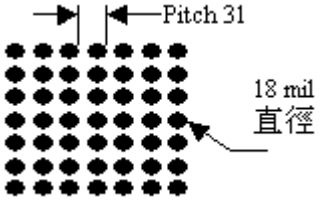
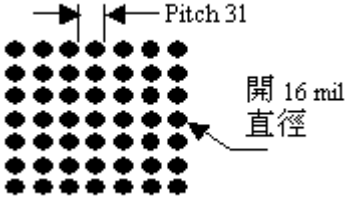
6	大于 1206 电阻			X：减 8mil Y：不变 内距：C+8mil 挖孔=1/3A 深度：20mil
7	大于 1206 电容 代号 C 系列			X：A-16mil Y：B+8mil 内距：C+16mil 挖孔= 1/3A 深度 = 1/3B+2mil
8	Alumin 铝质电容			削成六角形
9	（大型） 高压电容 内距=110mil			X：不变 Y：60→88mil 内距:110→118mil 半圆槽直径 30mil 深度 31 mil
10	（大型） 高压电容 内距=130mil			X：不变 Y：50→78mil 内距：130 不变
11	（大型） 高压电容 内距=130mil			X：130→120 mil Y：60→92 mil 内距：130 不变

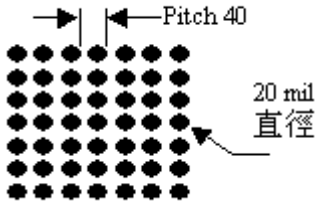
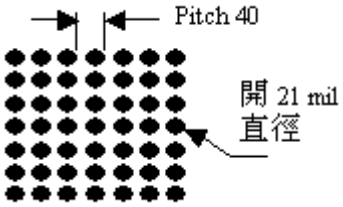
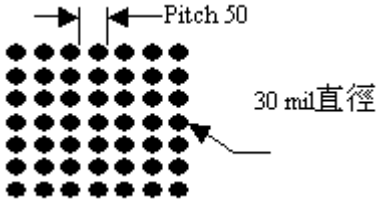
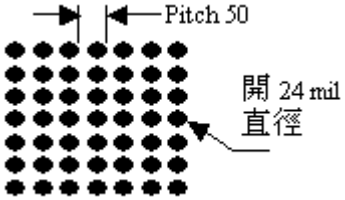
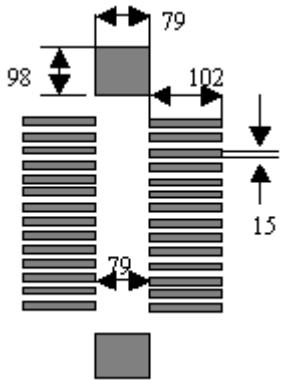
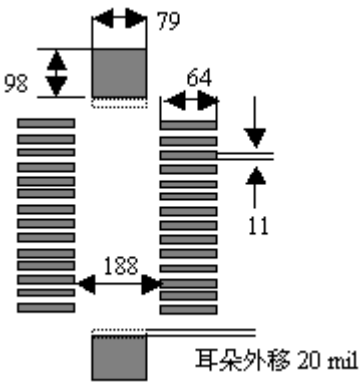
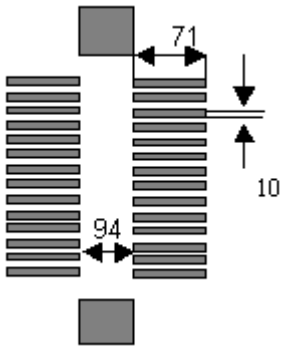
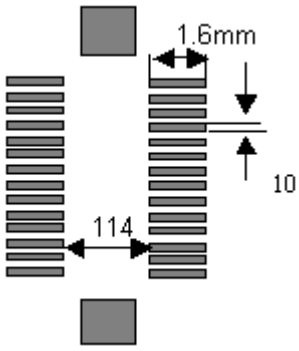
12	（圆型） 高压电容 内距=110mil			X：A-16mil Y：B+8mil 内距：C+16mil 挖孔 = 1/3A 深度 = 1/3B+2mil
13	（小型） 黑色圆形电感器件 代号 L			X：118→90mil Y：78→62mil 内距：174→214mil
14	（大型） 黑色圆形电感器件 代号 L			X：166→198mil Y：236→176mil 内距不变
15	Diode (小型)			X：54→40mil Y：不变 内距:54→60mil
16	Diode (中型)			X：不变 Y：不变 内距：74→80mil
17	Diode (大型)			X ：不变 Y：79→71mil(内砍 8mil) 内边：导角 40x26mil 内边：内砍 8mil 内距：86→102mil

18	VARITER 零件 代号 RV1			X：108→100mil Y：85→93mil 内距：89→97mil 挖孔：33mil 深度：33mil
19	FUSE 保险丝 1026 （不含）以下			X：86→62mil Y：不变 内距:52→75mil 半圆槽直径 21 mil 深度 19 mil
20	FUSE 保险丝 1026 （不含）以上			X：124→92mil Y：77→74mil 内距：117→123mil 半圆槽直径 31 mil 深度 27 mil
21	Connector 0.5Pitch			Y：10 →9mil X 外加 6 mil 由 47→53mil 耳朵后加 12mil
22	Connector 0.65Pitch			Y:：12 mil→10.8 mil X：外加 12 mil 耳朵后加 12mil

23	Connector 1.0 Pitch			宽：24→20mil X 外加:8mil 110→118mil 耳朵后加 12mil
24	Connector 1.27 Pitch			宽：30→26mil X 外加:12mil 74mil→86mil 耳朵后加 12mil
25	排阻 RN			X：18→15mil Y：42→50mil 内距:不变
26	六脚 IC 0.65 pitch			外四脚：X：12→13.5mil Y：36→45mil 内二脚：X：12→11.5mil Y：36→45mil 内距:不变
27	SOIC 0.5 pitch			X:：不變 Y:：12 → 8.6mil 内距: 不变

28	SOIC 0.65pitch			X:：90 → 84mil Y:：16 → 10.7mil 内距:：238→262mil
29	SOIC 1.27 pitch			X：24→26mil Y：66 →72mil 内距：不变
30	变压器			右 pinX：100 → 124mil 左 2pinX 外加:：24 mil Y：48 → 64mil 内距：不变
31	QFP 0.5pitch			X:：11mil → 8.6mil Y：不变
32	QFP 0.65pitch			X：15mil→10.7mil Y：不变

33	PLCC			X：不变 Y：不变
34	三脚 电晶体			内砍：3mil X：不变 Y：45→42mil 内距：C+6mil
35	四脚 电晶体			椭圆形外移 16mil 椭圆短径缩：112→98mil 椭圆短径缩：72→58mil 椭圆长径下砍：1/3:32mil
36	五脚 电晶体			前 3 脚 X：42→48mil 往外：6mil 前 3 脚 Y：22→20mil 后 2 脚 X：42→42mil 后 2 脚 Y：22→30mil
37	Crystal 振荡器			X:：55 → 43mil Y：79 → 45mil 内距:：149→209mil
38	BGA 0.80mm Pitch			原寸：直径 18 mil 开孔：直径 16 mil

39	BGA 1.00mm Pitch			原寸：直径 20 mil 开孔：直径 21 mil
40	BGA 1.27mm Pitch			原寸：直径 30 mil 开孔：直径 24 mil
41	J1 Connecter			耳朵原寸外移 20 mil 尺寸如图示
42	CN1 Connecter (K02I024 J07I037 SERIES)			其余单位为 mil

540 编 2006 年 3 月 25 日

射 频 和 天 线 设 计 培 训 课 程 推 荐

易迪拓培训(www.edatop.com)由数名来自于研发第一线的资深工程师发起成立，致力并专注于微波、射频、天线设计研发人才的培养；我们于 2006 年整合合并微波 EDA 网(www.mweda.com)，现已发展成为国内最大的微波射频和天线设计人才培养基地，成功推出多套微波射频以及天线设计经典培训课程和 ADS、HFSS 等专业软件使用培训课程，广受客户好评；并先后与人民邮电出版社、电子工业出版社合作出版了多本专业图书，帮助数万名工程师提升了专业技术能力。客户遍布中兴通讯、研通高频、埃威航电、国人通信等多家国内知名公司，以及台湾工业技术研究院、永业科技、全一电子等多家台湾地区企业。

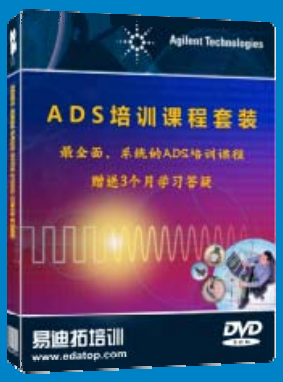
易迪拓培训课程列表：http://www.edatop.com/peixun/rfe/129.html

射频工程师养成培训课程套装

该套装精选了射频专业基础培训课程、射频仿真设计培训课程和射频电路测量培训课程三个类别共 30 门视频培训课程和 3 本图书教材；旨在引领学员全面学习一个射频工程师需要熟悉、理解和掌握的专业知识和研发设计能力。通过套装的学习，能够让学员完全达到和胜任一个合格的射频工程师的要求…

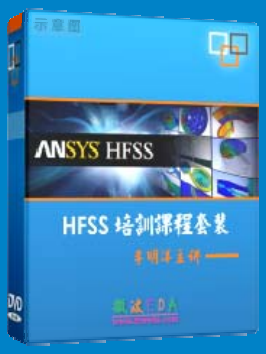
课程网址：http://www.edatop.com/peixun/rfe/110.html

ADS 学习培训课程套装



该套装是迄今国内最全面、最权威的 ADS 培训教程，共包含 10 门 ADS 学习培训课程。课程是由具有多年 ADS 使用经验的微波射频与通信系统设计领域资深专家讲解，并多结合设计实例，由浅入深、详细而又全面地讲解了 ADS 在微波射频电路设计、通信系统设计和电磁仿真设计方面的内容。能让您在最短的时间内学会使用 ADS，迅速提升个人技术能力，把 ADS 真正应用到实际研发工作中去，成为 ADS 设计专家...

课程网址： http://www.edatop.com/peixun/ads/13.html



HFSS 学习培训课程套装

该套课程套装包含了本站全部 HFSS 培训课程，是迄今国内最全面、最专业的 HFSS 培训教程套装，可以帮助您从零开始，全面深入学习 HFSS 的各项功能和在多个方面的工程应用。购买套装，更可超值赠送 3 个月免费学习答疑，随时解答您学习过程中遇到的棘手问题，让您的 HFSS 学习更加轻松顺畅…

课程网址：http://www.edatop.com/peixun/hfss/11.html

CST 学习培训课程套装

该培训套装由易迪拓培训联合微波 EDA 网共同推出，是最全面、系统、专业的 CST 微波工作室培训课程套装，所有课程都由经验丰富的专家授课，视频教学，可以帮助您从零开始，全面系统地学习 CST 微波工作的各项功能及其在微波射频、天线设计等领域的设计应用。且购买该套装，还可超值赠送 3 个月免费学习答疑…

课程网址：http://www.edatop.com/peixun/cst/24.html

HFSS 天线设计培训课程套装

套装包含 6 门视频课程和 1 本图书，课程从基础讲起，内容由浅入深，理论介绍和实际操作讲解相结合，全面系统的讲解了 HFSS 天线设计的全过程。是国内最全面、最专业的 HFSS 天线设计课程，可以帮助您快速学习掌握如何使用 HFSS 设计天线，让天线设计不再难…

课程网址：http://www.edatop.com/peixun/hfss/122.html

13.56MHz NFC/RFID 线圈天线设计培训课程套装

套装包含 4 门视频培训课程，培训将 13.56MHz 线圈天线设计原理和仿真设计实践相结合，全面系统地讲解了 13.56MHz 线圈天线的工作原理、设计方法、设计考量以及使用 HFSS 和 CST 仿真分析线圈天线的具体操作，同时还介绍了 13.56MHz 线圈天线匹配电路的设计和调试。通过该套课程的学习，可以帮助您快速学习掌握 13.56MHz 线圈天线及其匹配电路的原理、设计和调试…

详情浏览：http://www.edatop.com/peixun/antenna/116.html

我们的课程优势：

※ 成立于 2004 年，10 多年丰富的行业经验，

※ 一直致力并专注于微波射频和天线设计工程师的培养，更了解该行业对人才的要求

※ 经验丰富的一线资深工程师讲授，结合实际工程案例，直观、实用、易学

联系我们：

※ 易迪拓培训官网：http://www.edatop.com

※ 微波 EDA 网：http://www.mweda.com

※ 官方淘宝店：http://shop36920890.taobao.com