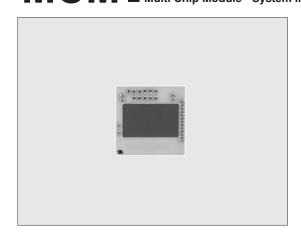
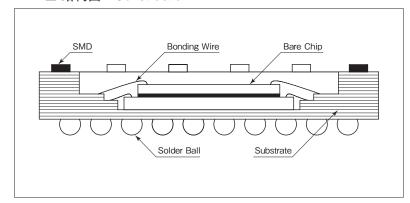
## **HYBRID IC**

# MCM I 多片模块 • 系统套装包装(SiP) Multi Chip Module • System in Package



#### ■ 结构图 Construction



### ■ 特点 Features

- ●由编入复数的半导体一个包装,实现系统的小型化,高功能化,标准化
- ●由于增大基板•多层精巧焊盘使得线路面积的降低,配线距离的缩短能解除信号延迟的问题
- SMD零部件混载的(表面安装型Hybrid IC)的展开
- ●由于功能调整能实现组件高精度
- ●由于外部端子减少贴装不良率降低
- Plural semiconductors in one package offers downsized system with high performance and standardization.
- Wiring space saving by multilayer fine patterns on build-up substrate. No signal delay by shortened wiring distance.
- Development with surface mounting type Hybrid IC to consolidate SMD parts
- High precision modules by function trimming.
- Less mounting problem because of the decreasing number of the terminals.

### ■贴片规格 Mounting Specifications

项 目 Item		単位 Unit	minimum	Standard	Maximum	Note
基板外形尺寸 Substrate Dimension		mm	50×20	120×100	320×140	
基板厚度 Substrate Thickness		mm	0.3	_	1.6	
裸芯片管脚间距 Bare Chip Pad Pitch		μm	100	_	_	
裸芯片管脚尺寸 Bare Chip Pad Dimension		μm	70	_	_	
裸芯片管脚厚度 Bare Chip Thickness		mm	0.1	0.2	_	
封装高度 Molding Height		mm	0.3	1.0	1.2	芯片表面开始的高度 Height from the chip surface
线长 Wire Length		mm	0.3	_	3.0	
线环高度 Wire Loop Height		μm	100	200	_	
线径 Wire Diameter	Al	μm	200	300	500	for Power Module
	Au		20	25	40	
基板电镀 Plating		电解・无电解镀金 Electrical/nonelectrical Au Plating				
基板 Substrate		• FR-4 • FR-5 • Alumina • LTCC • FPC				

## ■包装规格 Package Specifications

项 目 Item	内 容 Content		
端子间距 Terminal Pitch	0.8mm~		
可焊接产品 Mountable device	SMD     Bare Chip     Printed Resistor     (Trimable)		
可对应包装 Package	· SON · BGA · LGA		
包装基材 Substrate for Package	• FR-4 • FR-5 • Alumina • LTCC		