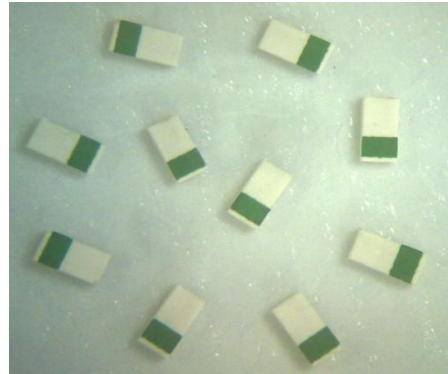


## Multilayer Chip Coupler 叠层片式耦合器

### FEATURES 特点

- **Multilayer monolithic construction yields high reliability**  
独石结构，可靠性高
- **Low insertion loss and small size SMD chip design**  
低插入损耗和小体积SMD片式设计
- **Can simplify your complex tuning and circuit design**  
能减少复杂的调校工作，简化电路设计



### APPLICATIONS 应用

- **PHS/GSM/DCS/PCS phones, Wlan card, Bluetooth modules, etc.** 小灵通，GSM/DCS/PCS 手机，无线局域网卡和蓝牙模块等
- **RF and Wireless Communication system.** 射频和无线通讯系统

### Product Identification 产品标识

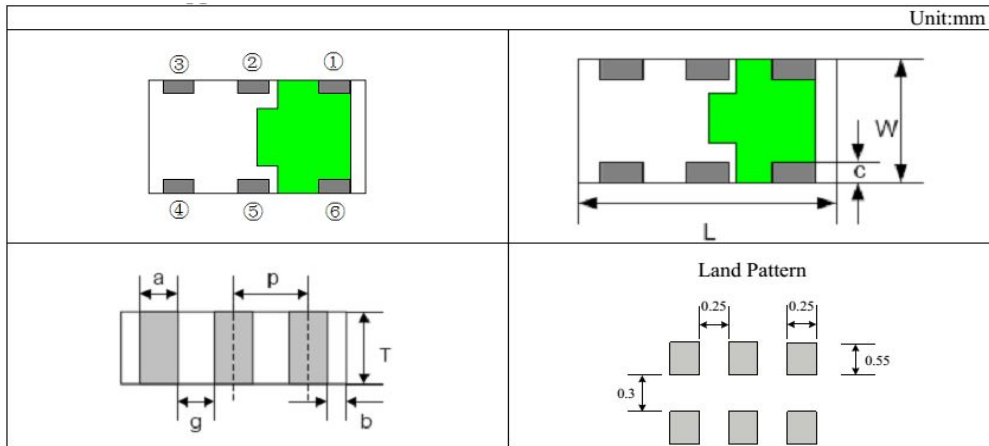
MGMC      18      H      0823G20      C58  
①            ②            ③            ④            ⑤

- ① **Series name** 系列名称
- ② **Dimension** 产品尺寸 L×W: 【18: 1.6mm×0.8mm 15: 1.0mm×0.5mm】
- ③ **Design series** 设计结构: [H: via design series 过孔设计系列    P: plane design series 平面设计系列]
- ④ **Center frequency** 中心频率: 823MHz
- ⑤ **Coupler type** 编号及产品标识号

## Multilayer Chip Coupler 叠层片式耦合器

Part No. 型号:MGMC18H0823G20-C58

### . Dimensions 外形尺寸 (Unit: mm)



Mark	W	L	T	a	b	c	g	p
Dimensions(mm)	0.8±0.1	1.6±0.1	0.6±0.1	0.2±0.1	0.2±0.1	0.15±0.1	0.3±0.1	0.5±0.1

### Terminal Configuration

①	IN	④	Termination
②	GND	⑤	GND
③	Coupled Out	⑥	Main Out

### . Electrical Characteristics 电气性能

No	Item	Specifications	
		f1	
1	Frequency Range (MHz)	f1	829.5±131.00MHz
		f2	1900±200.00MHz
		f3	2500±200.00MHz
2	Insertion Loss(dB)	f1	0.07 max.
		f2	0.12 max..
		f3	0.15 max..
3	Coupling Value(dB)	f1	25.3±1.0
		f2	20.5±1.0
		f3	20.9±1.0
4	Isolation (dB)	f1	56.8 min.
		f2	48.6 min.
		f3	45.5 min.
5	V.S.W.R	f1	1.02 max.
		f2	1.02 max.
		f3	1.02 max.
6	Characteristics Impedance	50 ohm (Nominal)	
7	Power Capacity	3W max.(50 ohm Load)	

## Multilayer Chip Coupler 叠层片式耦合器

Part No. 型号: MDBC18H0817G30-C56

### . Dimensions 外形尺寸 (Unit: mm)

Unit:mm								
				<p>Land Pattern</p>				
Terminal Configuration								
①	IN			④	Termination			
②	GND			⑤	GND			
③	Coupled Out			⑥	Main Out			
Mark	W	L	T	a	b	c	g	p
Dimensions(mm)	0.8±0.1	1.6±0.1	0.6±0.1	0.2±0.1	0.2±0.1	0.15±0.1	0.3±0.1	0.5±0.1

### . Electrical Characteristics 电气性能

No.	Item		Specifications
5-1	Port Impedance		50Ω
5-2	Frequency Range	High Freq.	1700~2100 MHz
		Low Freq.	824~915 MHz
5-3	VSWR		≤2.0
5-4	Insertion Loss		≤0.3 dB
5-5	Coupling	High Freq.	27.0 ± 1.0 dB
		Low Freq.	32.0± 1.0 dB
5-6	Isolation	High Freq.	≥42.0 dB
		Low Freq.	≥47.0 dB

## Multilayer Chip Coupler 叠层片式耦合器

Part No. 型号:MGMC18H2G4510-C62

### . Dimensions 外形尺寸 (Unit: mm)

Unit:mm								
				<p>Land Pattern</p>				
Terminal Configuration								
①	IN			④	Termination			
②	GND			⑤	GND			
③	Coupled Out			⑥	Main Out			
Mark	W	L	T	a	b	c	g	p
Dimensions(mm)	0.8±0.1	1.6±0.1	0.6±0.1	0.2±0.1	0.2±0.1	0.15±0.1	0.3±0.1	0.5±0.1

### . Electrical Characteristics 电气性能

No.	Item (项目)	Specifications (特性)
1	Port Impedance 端口阻抗	50Ω
2	Frequency 频率	2400~2500 MHz
3	VSWR 驻波比	≤1.8 dB
4	Insertion Loss 插入衰耗	≤0.74 dB
5	Coupling 耦合度	10.0 ± 1.0 dB
6	Isolation 隔离度	≥22.0 dB