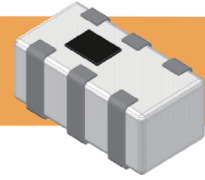


叠层片式 LC 耦合器—SLCP 系列

Multilayer Chip LC Coupler – SLCP Series



工作温度

Operating Temp

- ◆ -40°C ~+85°C

特征

Features

- ◆ 体积小, 适合高密度贴装
- ◆ 低插损、高耦合
- ◆ 具有优良的焊接性能
- ◆ Small and low profile enables high density mounting
- ◆ Low insertion loss and high coupling
- ◆ Excellent solderability

用途

Applications

- ◆ 载波聚合, LTE, 5G 等系统的移动通讯设备
- ◆ 基站应用
- ◆ Mobile communication system, such as CA, LTE, 5G
- ◆ Base station application

产品型号

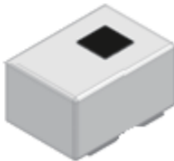
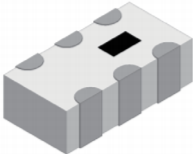
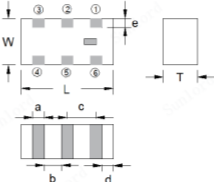
Product Identification

1	SLCP	2	18	3	-2R700G	4	-02	5	T
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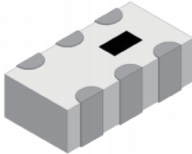
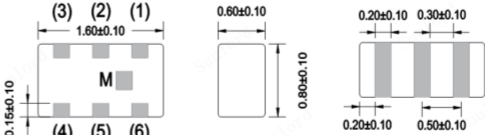
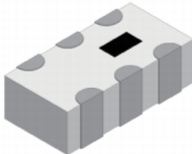
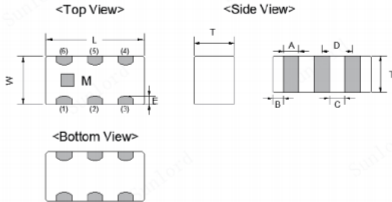
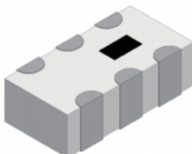
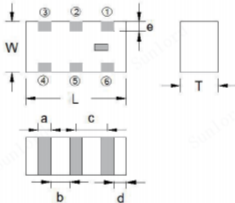
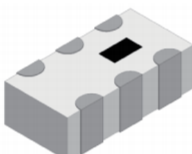
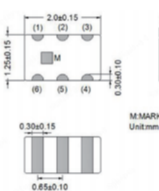
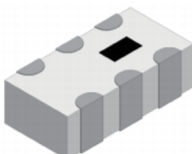
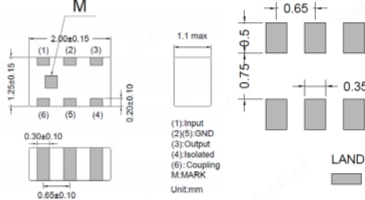
1	分类 Type	2	外形尺寸 (L×W) (mm) External Dimensions (L×W) (mm)	3	中心频率 Center Frequency
SLCP	耦合器 LC Coupler	06 [0202]	0.6×0.5	Example	NoMinal Value
		18 [0603]	1.6×0.8	2R700G	2700MHz
		21 [0805]	2.0×1.2		
		31 [1206]	3.2×1.6		
4	系列代号 Series Code	5	包装 Packing		
	02	T	编带 Tape Carrier Package		

外观尺寸

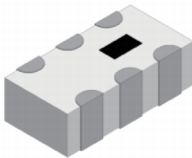
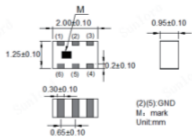
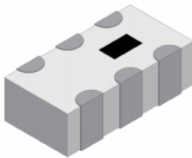
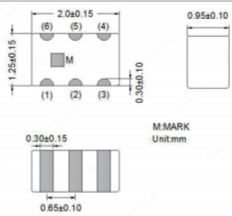
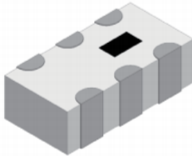
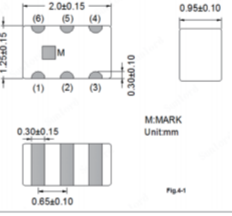
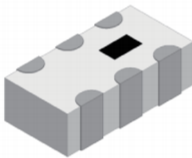
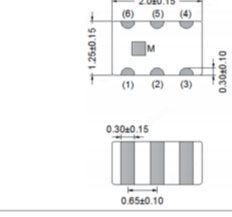
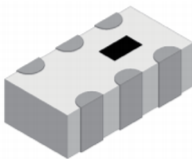
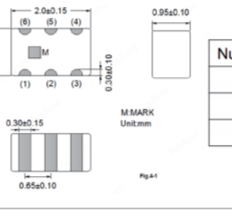
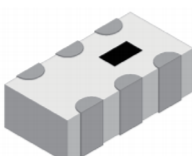
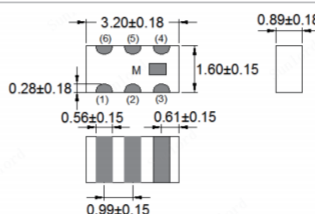
Shape and Dimensions

Type: SLCP06 Series	Dimensions and Land Patterns																
	<Top View> <Side View> <Bottom View> (1) : Coupling Port (2) : 50 ohm Terminate Port (3) : Output Port (4) : Inout Port M : MARK Unit : mm																
Type: SLCP18 Series	Dimensions and Land Patterns																
	 <table><tr><th>Number</th><th>Terminal Name</th><th>Number</th><th>Terminal Name</th></tr><tr><td>①</td><td>IN</td><td>④</td><td>Termination Port</td></tr><tr><td>②</td><td>GND</td><td>⑤</td><td>GND</td></tr><tr><td>③</td><td>OUT</td><td>⑥</td><td>Coupling</td></tr></table>	Number	Terminal Name	Number	Terminal Name	①	IN	④	Termination Port	②	GND	⑤	GND	③	OUT	⑥	Coupling
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②	GND	⑤	GND														
③	OUT	⑥	Coupling														

外观尺寸 Shape and Dimensions

SLCP18-2R700G-02T	Dimensions and Land Patterns   (1) : Input (2) (5) : GND (3) : Coupling (4) : Termination (6) : Output M : MARK Unit : mm																																			
SLCP18-2R700G-15T	Dimensions and Land Patterns  																																			
SLCP18-5R400G-01T/ SLCP18-6R000G-01T	Dimensions and Land Patterns   <table><tr><th>Number</th><th>Terminal Name</th><th>Number</th><th>Terminal Name</th></tr><tr><td>①</td><td>IN</td><td>④</td><td>Termination Port</td></tr><tr><td>②</td><td>GND</td><td>⑤</td><td>GND</td></tr><tr><td>③</td><td>OUT</td><td>⑥</td><td>Coupling</td></tr></table>	Number	Terminal Name	Number	Terminal Name	①	IN	④	Termination Port	②	GND	⑤	GND	③	OUT	⑥	Coupling																			
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Type: SLCP21 Series	Dimensions and Land Patterns   <table><tr><th>Pin</th><th>Configuration-1</th><th>Configuration-2</th><th>Configuration-3</th><th>Configuration-4</th></tr><tr><td>1</td><td>Input</td><td>Isolated</td><td>Direct</td><td>Coupled</td></tr><tr><td>2</td><td>GND</td><td>GND</td><td>GND</td><td>GND</td></tr><tr><td>3</td><td>Isolated</td><td>Input</td><td>Coupled</td><td>Direct</td></tr><tr><td>4</td><td>Direct</td><td>Coupled</td><td>Input</td><td>Isolated</td></tr><tr><td>5</td><td>GND</td><td>GND</td><td>GND</td><td>GND</td></tr><tr><td>6</td><td>Coupled</td><td>Direct</td><td>Isolated</td><td>Input</td></tr></table>	Pin	Configuration-1	Configuration-2	Configuration-3	Configuration-4	1	Input	Isolated	Direct	Coupled	2	GND	GND	GND	GND	3	Isolated	Input	Coupled	Direct	4	Direct	Coupled	Input	Isolated	5	GND	GND	GND	GND	6	Coupled	Direct	Isolated	Input
Pin	Configuration-1	Configuration-2	Configuration-3	Configuration-4																																
1	Input	Isolated	Direct	Coupled																																
2	GND	GND	GND	GND																																
3	Isolated	Input	Coupled	Direct																																
4	Direct	Coupled	Input	Isolated																																
5	GND	GND	GND	GND																																
6	Coupled	Direct	Isolated	Input																																
SLCP21-0R850G-03T	Dimensions and Land Patterns   (1) Input (2)(5) GND (3) Output (4) Isolated (6) Coupling M MARK Unit:mm LAND unit: mm																																			

外观尺寸 Shape and Dimensions

SLCP21-0R850G-04T	Dimensions and Land Patterns   <table><tr><th>Configuration</th><th>Pin1</th><th>Pin3</th><th>Pin4</th><th>Pin6</th></tr><tr><td>Case 1.</td><td>Direct</td><td>Coupled</td><td>Input</td><td>Isolated</td></tr><tr><td>Case 2.</td><td>Coupled</td><td>Direct</td><td>Isolated</td><td>Input</td></tr></table>	Configuration	Pin1	Pin3	Pin4	Pin6	Case 1.	Direct	Coupled	Input	Isolated	Case 2.	Coupled	Direct	Isolated	Input																				
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SLCP21-2R550G-01T/ SLCP21-3R550G-01T	Dimensions and Land Patterns   <table><tr><th>Pin</th><th>Configuration-1</th><th>Configuration-2</th><th>Configuration-3</th><th>Configuration-4</th></tr><tr><td>1</td><td>Input</td><td>Isolated</td><td>Direct</td><td>Coupled</td></tr><tr><td>2</td><td>GND</td><td>GND</td><td>GND</td><td>GND</td></tr><tr><td>3</td><td>Isolated</td><td>Input</td><td>Coupled</td><td>Direct</td></tr><tr><td>4</td><td>Direct</td><td>Coupled</td><td>Input</td><td>Isolated</td></tr><tr><td>5</td><td>GND</td><td>GND</td><td>GND</td><td>GND</td></tr><tr><td>6</td><td>Coupled</td><td>Direct</td><td>Isolated</td><td>Input</td></tr></table>	Pin	Configuration-1	Configuration-2	Configuration-3	Configuration-4	1	Input	Isolated	Direct	Coupled	2	GND	GND	GND	GND	3	Isolated	Input	Coupled	Direct	4	Direct	Coupled	Input	Isolated	5	GND	GND	GND	GND	6	Coupled	Direct	Isolated	Input
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SLCP21-3R500G-06T	Dimensions and Land Patterns   <table><tr><th>Number</th><th>Terminal Name</th><th>Number</th><th>Terminal Name</th></tr><tr><td>①</td><td>IN</td><td>④</td><td>GND</td></tr><tr><td>②</td><td>Coupling</td><td>⑤</td><td>Termination Port</td></tr><tr><td>③</td><td>GND</td><td>⑥</td><td>OUT</td></tr></table>	Number	Terminal Name	Number	Terminal Name	①	IN	④	GND	②	Coupling	⑤	Termination Port	③	GND	⑥	OUT																			
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SLCP21-4R700G-11/12T	Dimensions and Land Patterns   <table><tr><th>Pin</th><th>Configuration-1</th></tr><tr><td>1</td><td>Input</td></tr><tr><td>2</td><td>GND</td></tr><tr><td>3</td><td>Isolated</td></tr><tr><td>4</td><td>Direct</td></tr><tr><td>5</td><td>GND</td></tr><tr><td>6</td><td>Coupled</td></tr></table>	Pin	Configuration-1	1	Input	2	GND	3	Isolated	4	Direct	5	GND	6	Coupled																					
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SLCP21-5R300G-01T	Dimensions and Land Patterns   <table><tr><th>Number</th><th>Terminal Name</th><th>Number</th><th>Terminal Name</th></tr><tr><td>①</td><td>IN</td><td>④</td><td>Termination Port</td></tr><tr><td>②</td><td>GND</td><td>⑤</td><td>GND</td></tr><tr><td>③</td><td>OUT</td><td>⑥</td><td>Coupling</td></tr></table>	Number	Terminal Name	Number	Terminal Name	①	IN	④	Termination Port	②	GND	⑤	GND	③	OUT	⑥	Coupling																			
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SLCP31-0R300G-31T/ SLCP31-0R500G-01T	Dimensions and Land Patterns   <table><tr><th>Pin</th><th>Configuration-1</th></tr><tr><td>1</td><td>Input</td></tr><tr><td>2</td><td>GND</td></tr><tr><td>3</td><td>Isolated</td></tr><tr><td>4</td><td>Direct</td></tr><tr><td>5</td><td>GND</td></tr><tr><td>6</td><td>Coupled</td></tr></table>	Pin	Configuration-1	1	Input	2	GND	3	Isolated	4	Direct	5	GND	6	Coupled																					
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3	Isolated																																			
4	Direct																																			
5	GND																																			
6	Coupled																																			

规格特性 Specifications

SLCP06 TYPE

型号 Part Number	中心频率 Center Frequency	通带 Pass Band	插入损耗 Max. IL in PB (@ 25°C)	耦合度 Coupling Value	方向性 Directivity
单位 Units	MHz	MHz	dB	dB	dB
符号 Symbol	f_0	PB	IL	-	-
SLCP06-5R950G-05T	5950	2400~2500	0.3	17~20.7	-
		4900~5950	0.6	11~14	
SLCP06-6R000G-31T	6000	5150~7125	0.15	24.5±2.5	-

SLCP18 TYPE

型号 Part Number	中心频率 Center Frequency	通带 Pass Band	插入损耗 Max. IL in PB (@ 25°C)	耦合度 Coupling Value	方向性 Directivity
单位 Units	MHz	MHz	dB	dB	dB
符号 Symbol	f_0	PB	IL	-	-
SLCP18-2R450G-01T	2450	2400~2500	0.2	20±2	23 dB Min.
SLCP18-2R700G-02T	2700	698~960	0.23	25.5±2 dB@698~915MHz	-
		1710~2170	0.25	22.5±2 dB@1710~2025MHz	-
		2300~2690	0.28	23.5±2 dB@2300~2620MHz	-
SLCP18-2R700G-15T	Band 1	698~960	0.23	25±3 dB@698~915MHz	-
	Band 2	1710~2170	0.25	23±3 dB@1710~2025MHz	
	Band 3	2300~2690	0.28	24±3 dB@2300~2620MHz	
SLCP18-5R400G-01T	5400	4900~5900	0.2	18~24	17 dB Min.
SLCP18-6R000G-01T	6000	4900~7125	0.25	20~24	20 dB Min.
SLCP18-6R000G-31T	6000	5925~7125	0.30	18~24	18 dB Min.

SLCP21 TYPE

型号 Part Number	中心频率 Center Frequency	通带 Pass Band	插入损耗 Max. IL in PB (@ 25°C)	耦合度 Coupling value	方向性 Directivity
单位 Units	MHz	MHz	dB	dB	dB
符号 Symbol	f_0	PB	IL	-	-
SLCP21-0R850G-03T	850	700~1000	0.3	21.5±2.5	14 dB Min.
SLCP21-0R850G-04T	850	700~1000	0.6	5±0.5	19 dB Min.
SLCP21-2R000G-02T	2000	1700~2300	0.4	3	-
SLCP21-2R500G-02T	2500	2300~2700	0.40 dB Max.	3	-
SLCP21-2R550G-01T	2550	2400~2700	0.3	5±0.6	-
SLCP21-3R500G-11T	3500	3200~3700	0.4	3	-
SLCP21-3R500G-02T	3500	3300~3800	0.4	3	-
SLCP21-3R500G-06T	3500	3300~3700	0.21	19.1 dB Min. 22.9 dB Max.	9.7
SLCP21-3R550G-01T	3550	3300~3800	0.3	5±0.6	-
SLCP21-3R950G-01T	3950	3800~4100	0.4	2.9~3.6	-
SLCP21-4R700G-01T	4700	4400~5000	0.3	3±0.3	-
SLCP21-4R700G-11T	4700	4400~5000	0.3	5±0.3	-
SLCP21-4R700G-12T	4700	4400~5000	0.4	2±0.6	-
SLCP21-5R200G-05T	5200	4400~6000	0.35 dB Max. @4400~4800MHz	2.7~3.3	-
			0.3 dB Max. @4800~5000MHz		
			0.35 dB Max. @5000~6000MHz		

规格特性
Specifications

SLCP21 TYPE

型号 Part Number	中心频率 Center Frequency	通带 Pass Band	插入损耗 Max. IL in PB (@ 25°C)	耦合度 Coupling value	方向性 Directivity
单位 Units	MHz	MHz	dB	dB	dB
符号 Symbol	f ₀	PB	IL	-	-
SLCP21-5R300G-01T	5300	4700~5900	0.32	18.6 dB Min. 21.0 dB Max.	5.3
SLCP21-6R000G-01T	6000	4000~8000	1.0 dB Max. @4000~5000MHz	-	-
			1.0 dB Max. @5000~6000MHz		
			1.1 dB Max. @6000~7000MHz		
			1.5 dB Max. @7000~8000MHz		

SLCP31 TYPE

型号 Part Number	中心频率 Center Frequency	通带 Pass Band	插入损耗 Max. IL in PB (@ 25°C)	耦合度 Coupling value	方向性 Directivity
单位 Units	MHz	MHz	dB	dB	dB
符号 Symbol	f ₀	PB	IL	-	-
SLCP31-0R300G-31T	300	220-470	0.8	3.0-4.2	-
		270-350	0.7	3.0-3.5	
		350-450	0.8	3.0-4.2	
SLCP31-0R500G-01T	500	210~728	0.8	3	-