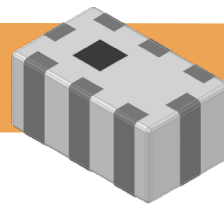


叠层片式 LC 低通滤波器—SLFL 系列

Multilayer Chip Low Pass LC Filter—SLFL Series



Operating Temp

◆ -40°C ~ +85°C

Features

- | | |
|-----------------|--|
| ◆ 体积小，重量轻 | ◆ Small size, light weight |
| ◆ 低插损 | ◆ Low insertion loss |
| ◆ 良好的内部屏蔽 | ◆ Inside shielding |
| ◆ 低温共烧陶瓷技术表面焊接 | ◆ SMD chip based on LTCC technology |
| ◆ 可定制中心频率、抑制等特性 | ◆ Center frequency and attenuation are ready for customization |

Applications

- | | |
|-----------------------|--|
| ◆ LTE, 5G 移动通信系统 | ◆ LTE, 5G mobile communication systems |
| ◆ 基站应用 | ◆ Base station application |
| ◆ 蓝牙, Wi-Fi, NB-IoT 等 | ◆ Bluetooth, Wi-Fi, NB-IoT etc. |

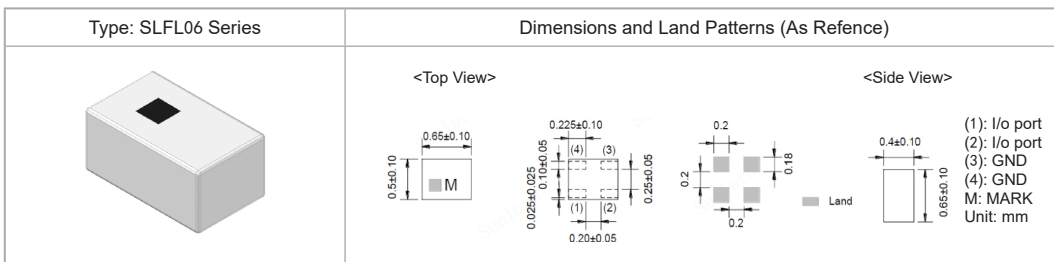
Product Identification

Figure 1: Product Code Example

1	2	3	4	5	6
SLFL	15	-2R025G	-01	T	F

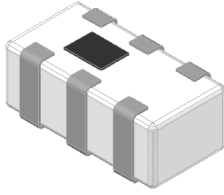
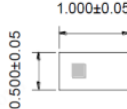
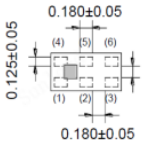
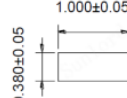
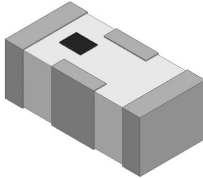
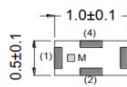
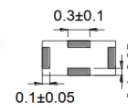
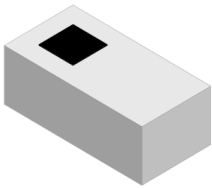
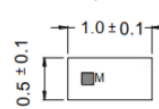
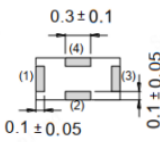
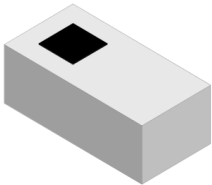
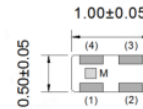
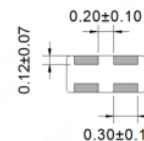
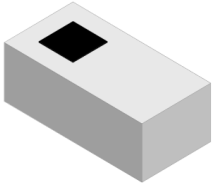
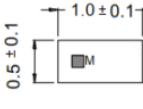
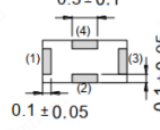
1	2	3														
分类 Type SLFL 低通滤波器 Low Pass LC Filter	外形尺寸 (L×W) (mm) External Dimensions (L×W) (mm) <table><tr><td>06 [0202]</td><td>0.6×0.5</td></tr><tr><td>15 [0402]</td><td>1.0×0.5</td></tr><tr><td>18 [0603]</td><td>1.6×0.8</td></tr><tr><td>21 [0805]</td><td>2.0×1.2</td></tr></table>	06 [0202]	0.6×0.5	15 [0402]	1.0×0.5	18 [0603]	1.6×0.8	21 [0805]	2.0×1.2	截止频率 Cut-off Frequency <table><tr><td>Example</td><td>NoMinal Value</td></tr><tr><td>0R960G</td><td>960.0MHz</td></tr><tr><td>2R025G</td><td>2025.0MHz</td></tr></table>	Example	NoMinal Value	0R960G	960.0MHz	2R025G	2025.0MHz
06 [0202]	0.6×0.5															
15 [0402]	1.0×0.5															
18 [0603]	1.6×0.8															
21 [0805]	2.0×1.2															
Example	NoMinal Value															
0R960G	960.0MHz															
2R025G	2025.0MHz															
系列代号 Series Code 01, 02, etc.	包装 Packing <table><tr><td>T</td><td>编带 Tape & Reel</td></tr></table>	T	编带 Tape & Reel	无有害物质产品 Hazardous Substance Free Products F												
T	编带 Tape & Reel															

Shape and Dimensions

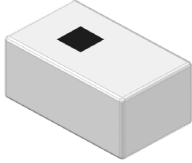
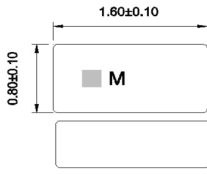
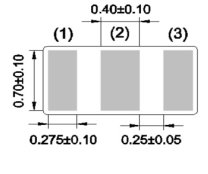
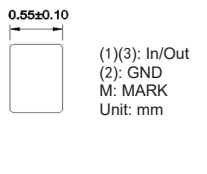
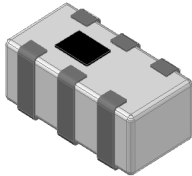
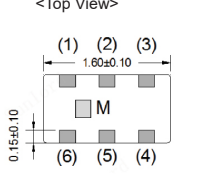
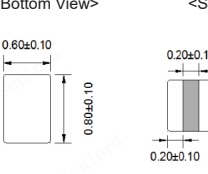
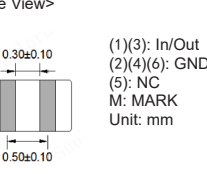
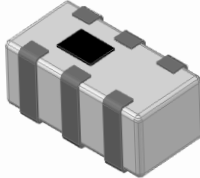
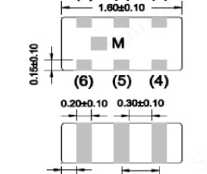
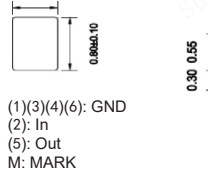
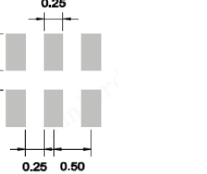
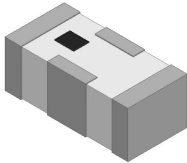
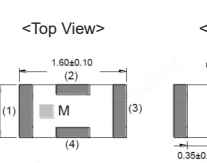
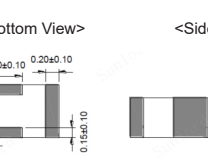
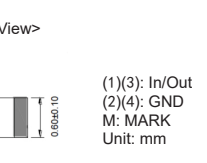
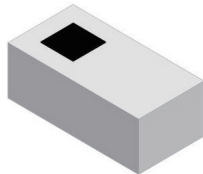
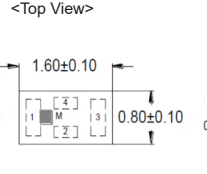
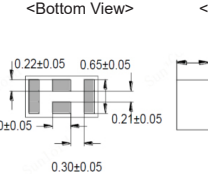
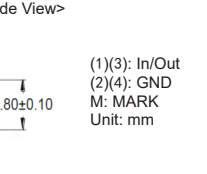


外观尺寸

Shape and Dimensions

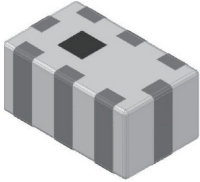
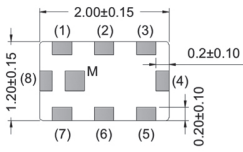
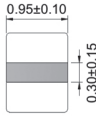
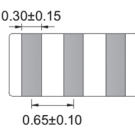
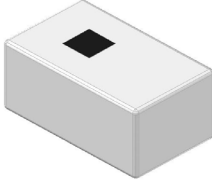
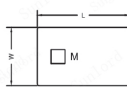
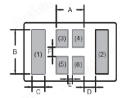
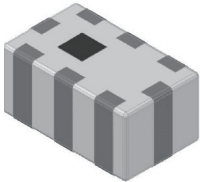
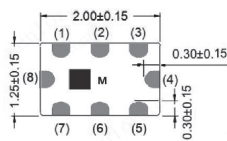
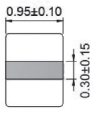
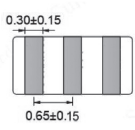
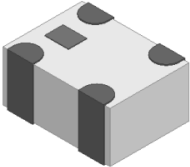
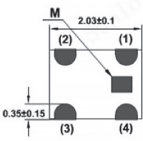
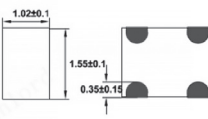
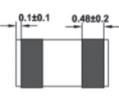
Type: SLFL15 Series	Dimensions and Land Patterns (As Reference)
	<Top View> <Bottom View> <Side View>    (1) (3) : NC (2) (5) : GND (4) (6) : In / Out M : MARK Unit : mm
SLFL15-0R960G-03TF/ SLFL15-2R025G-03TF	Dimensions and Land Patterns (As Reference)
	<Top View> <Bottom View> <Side View>    (1) : IN (2) : GND (3) : OUT (4) : GND M : MARK Unit : mm
SLFL15-2R700G-01/20TF/ SLFL15-5R950G-20TF	Dimensions and Land Patterns (As Reference)
	<Top View> <Bottom View> <Side View>    (1) (3) : In / Out (2) (4) : GND M : MARK Unit : mm
SLFL15-7R125G-01TF	Dimensions and Land Patterns (As Reference)
	<Top View> <Bottom View> <Side View>    (1) (2) : In/Out (3) (4) : GND M : MARK Unit : mm
SLFL15-7R125G-03TF	Dimensions and Land Patterns (As Reference)
	<Top View> <Bottom View> <Side View>    (1) (3) : In / Out (2) (4) : GND M : MARK Unit : mm

外观尺寸 Shape and Dimensions

Type: SLFL18 Series	Dimensions and Land Patterns (As Reference)
	<Top View> <Bottom View> <Side View>    (1)(3): In/Out (2): GND M: MARK Unit: mm
SLFL18-0R787G-11TF/ SLFL18-0R960G-11TF/ SLFL18-3R600G-11TF/ SLFL18-2R025G-11TF	Dimensions and Land Patterns (As Reference)
	<Top View> <Bottom View> <Side View>    (1)(3): In/Out (2)(4)(6): GND (5): NC M: MARK Unit: mm
SLFL18-0R960G-03TF/	Dimensions and Land Patterns (As Reference)
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SLFL18-1R850G-01TF/ SLFL18-5R950G-31TF	Dimensions and Land Patterns (As Reference)
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SLFL18-0R960G-S09/31/41TF/ SLFL18-2R700G-14/S09/17/18/41TF	Dimensions and Land Patterns (As Reference)
	<Top View> <Bottom View> <Side View>    (1)(3): In/Out (2)(4): GND M: MARK Unit: mm

外观尺寸

Shape and Dimensions

Type: SLFL21 Series	Dimensions and Land Patterns (As Reference)
	   (1)(3)(5)(7): GND (2)(6): NC (4): OUT (8): In M: MARK Unit: mm
SLFL21-0R490G-01TF	Dimensions and Land Patterns (As Reference)
	<Top View> <Bottom View> <Side View>     (1): In (2): Out (3)(4)(5)(6): GND M: MARK Unit: mm
SLFL21-1R575G-01TF/ SLFL21-1R700G-01TF/ SLFL21-2R500G-01TF	Dimensions and Land Patterns (As Reference)
	   (1)(2)(3): GND (5)(6)(7): GND (4): Out (8): In M: MARK Unit: mm
SLFL21-1R880G-01TF/ SLFL21-2R700G-02TF	Dimensions and Land Patterns (As Reference)
	<Top View> <Bottom View> <Side View>    (1): In (2): Out (3)(4): GND M: MARK Unit: mm

规格特性 Specifications

SLFL06 TYPE

型号 Part Number	截止频率 Cut-off Frequency	带宽 Bandwidth	插入损耗 Max. IL in BW (@ 25°C)	带外抑制 Attenuation	厚度 Thickness
单位 Units	MHz	MHz	dB	dB	MM
符号 Symbol	f ₀	BW	IL	-	T
SLFL06-0R787G-01TF	787	777~787	0.7	30 dB Min. @ 1554~1607MHz	0.40
				19 dB Min. @ 2400~2500MHz	
				9 dB Min. @ 5150~5850MHz	
SLFL06-0R915G-01TF	915	824~915	0.6	20.0dB Min. @ 2400~2750MHz	0.60
SLFL06-0R960G-01TF	960	824~960	0.6 dB Max. @824~915MHz	20 dB Min. @ 1648~1830MHz	0.40
			0.7 dB Max. @915~960MHz	20 dB Min. @ 1830~1920MHz	
				20 dB Min. @ 2472~2745MHz	
SLFL06-1R910G-01TF	1910	1710~1910	0.6	20 dB Min. @ 2745~2880MHz	0.40
				30 dB Min. @ 3420~3820MHz	
				20 dB Min. @ 5130~5730MHz	

SLFL15 TYPE

型号 Part Number	截止频率 Cut-off Frequency	带宽 Bandwidth	插入损耗 Max. IL in BW (@ 25°C)	带外抑制 Attenuation	厚度 Thickness
单位 Units	MHz	MHz	dB	dB	MM
符号 Symbol	f ₀	BW	IL	-	T
SLFL15-0R787G-01TF	787	746~787	0.6	30 dB Min. @ 1554~1610MHz	0.38±0.05
				25 dB Min. @ 2238~2361MHz	
SLFL15-0R960G-01TF	960	698~960	0.6	13.0dB Min. @ 1565~1610MHz	
				35.0dB Min. @ 1805~1830MHz	
				35.0dB Min. @ 2110~2170MHz	
SLFL15-0R960G-03TF	960	699~960	0.5	30.0dB Min. @ 1710~2700MHz	
				24 dB Min. @ 2110~2155MHz	0.40
SLFL15-2R025G-01TF	2025	1710~2025	1.4	10 dB Min. @ 2400~2500MHz	0.38±0.05
				25 dB Min. @ 3760~4050MHz	
				25 dB Min. @ 5150~5850MHz	
				25 dB Min. @ 5640~6075MHz	
				25 dB Min. @ 7520~8100MHz	
				22 dB Min. @ 9400~10125MHz	
SLFL15-2R025G-02TF	2025	500~2180	0.6	20.0dB Min. @ 3350~4360MHz	
				45.0dB Min. @ 5085~6540MHz	
SLFL15-2R025G-03TF	2025	1710~2025	0.45 dB Max. @1710~1910MHz	22 dB Min. @ 3420~3820MHz	
			0.5 dB Max. @1910~2025MHz	25 dB Min. @ 3820~4050MHz	
SLFL15-2R025G-20TF	2200	1695~2180	0.6	25 dB Min. @ 5130~6075MHz	0.45
		2180~2200	0.63	20 dB Min. @ 3350~4360MHz	
				45 dB Min. @ 5085~6540MHz	
				43 dB Min. @ 6540~6600MHz	
				23 dB Min. @ 9025~10050MHz	
SLFL15-2R700G-01TF	2700	2300~2700	0.45	20 dB Min. @ 10050~10100MHz	0.40±0.05
				12 dB Min. @ 11000~12750MHz	
SLFL15-2R700G-02TF	2700	2300~2700	0.5	30dB Min. @ 4600~5400MHz	
				30dB Min. @ 6900~8100MHz	
SLFL15-2R700G-20TF	2700	2300~2700	0.5	25 dB Min. @ 4600~5400MHz	
				25 dB Min. @ 6900~8100MHz	
SLFL15-5R950G-20TF	2950	4900~5950	0.55	25 dB Min. @ 4600~5400MHz	
SLFL15-7R125G-01TF	7125	5150~7125	0.55	20 dB Min. @ 9800~11900MHz	
				10 dB Min. @ 10300~14250MHz	
SLFL15-7R125G-03TF	7125	5150~7125	0.55	20 dB Min. @ 15450~21375MHz	
				10 dB Min. @ 10300~14250MHz	
				20 dB Min. @ 15450~21375MHz	

规格特性 Specifications

SLFL18 TYPE

型号 Part Number	截止频率 Cut-off Frequency	带宽 Bandwidth	插入损耗 Max. IL in BW (@ 25°C)	带外抑制 Attenuation	厚度 Thickness
单位 Units	MHz	MHz	dB	dB	MM
符号 Symbol	f ₀	BW	IL	-	T
SLFL18-0R960G-21TF	960	698~960	0.45	25 dB Min. @ 1628~1830MHz	0.70±0.10
				20 dB Min. @ 1710~2170MHz	
				20 dB Min. @ 2300~2690MHz	
				23 dB Min. @ 2097~2745MHz	
				20 dB Min. @ 2796~3660MHz	
				20 dB Min. @ 3495~4575MHz	
				17 dB Min. @ 4194~5490MHz	
				19 dB Min. @ 4900~5900MHz	
SLFL18-0R787G-11TF	787	470~787	0.65	26 dB Min. @ 1429~1501MHz	0.60±0.10
				35 dB Min. @ 1554~1574MHz	
				30 dB Min. @ 1580~1607MHz	
				20 dB Min. @ 1920~1980MHz	
SLFL18-0R960G-11TF	960	698~960	0.75	28 dB Min. @ 1427~1920MHz	0.80±0.10
				30 dB Min. @ 2097~2880MHz	
SLFL18-0R960G-S09TF	960	698~960	0.35	12 dB Min. @ 1574~1605MHz	0.60±0.10
				16 dB Min. @ 1648~1698MHz	
				21 dB Min. @ 1760~1830MHz	
				30 dB Min. @ 2472~2494MHz	
				13 dB Min. @ 2495~2547MHz	
				18 dB Min. @ 2640~2745MHz	
				16 dB Min. @ 3296~3396MHz	
				21 dB Min. @ 3520~3660MHz	
				33 dB Min. @ 4120~4245MHz	
				34 dB Min. @ 4400~4575MHz	
				38 dB Min. @ 4944~5094MHz	
				32 dB Min. @ 5280~5490MHz	
				26 dB Min. @ 5768~5943MHz	
				22 dB Min. @ 6160~6405MHz	
				22 dB Min. @ 6592~6792MHz	
				19 dB Min. @ 7040~7320MHz	
				14 dB Min. @ 7416~7614MHz	
				4 dB Min. @ 7920~8235MHz	
SLFL18-0R960G-22TF	960	698~960	0.5	28 dB Min. @ 1710~1785MHz	
				28 dB Min. @ 1785~2300MHz	
				26 dB Min. @ 2300~2690MHz	
				25 dB Min. @ 2690~3800MHz	
				20 dB Min. @ 3800~5100MHz	
				25 dB Min. @ 5100~5850MHz	
				25 dB Min. @ 5850~5925MHz	
SLFL18-0R960G-41TF	960	600~960	0.35	25 dB Min. @ 1738~1920MHz	
				25 dB Min. @ 2400~3500MHz	
SLFL18-1R850G-01TF	1850	1710~1990	0.5/0.55	30.5 dB Min. @ 3420~3980MHz	
				28.5 dB Min. @ 5130~5970MHz	
SLFL18-2R025G-01TF	2025	1710~2025	1.2	20 dB Min. @ 2400~2500MHz	0.80±0.10
				20 dB Min. @ 4020~4045MHz	
				25 dB Min. @ 6030~6075MHz	
SLFL18-2R025G-11TF	2025	1880~2025	0.65	26 dB Min. @ 3760 ~4050MHz	0.60±0.10
				28 dB Min. @ 5640 ~6075MHz	

规格特性 Specifications

SLFL18 TYPE

型号 Part Number	截止频率 Cut-off Frequency	带宽 Bandwidth	插入损耗 Max. IL in BW (@ 25°C)	带外抑制 Attenuation	厚度 Thickness
单位 Units	MHz	MHz	dB	dB	MM
符号 Symbol	f ₀	BW	IL	-	T
SLFL18-2R025G-06TF	2025	1710~2025	0.55	27 dB Min. @ 3420~3840MHz	0.70±0.10
				28 dB Min. @ 4020~4050MHz	
				20 dB Min. @ 4900~5950MHz	
				30 dB Min. @ 5130~5760MHz	
				30 dB Min. @ 6030~6075MHz	
				25 dB Min. @ 6840~7680MHz	
				25 dB Min. @ 8040~8100MHz	
				20 dB Min. @ 8550~9600MHz	
				20 dB Min. @ 10050~10125MHz	
				20 dB Min. @ 10260~11520MHz	
				10 dB Min. @ 12060~12150MHz	
SLFL18-2R025G-31TF	2025	1710~2025	0.4	25 dB Min. @ 3420~4050MHz	0.55±0.10
				25 dB Min. @ 5130~6075MHz	
				25 dB Min. @ 8100~12500MHz	
SLFL18-2R700G-02TF	2700	673~2690	0.5	35 dB Min. @ 4950~6000MHz	
				35 dB Min. @ 6000~7500MHz	
				35 dB Min. @ 7500~8100MHz	
				27 dB Min. @ 8100~12500MHz	
SLFL18-2R700G-03TF	2700	2300~2700	0.5	30 dB Min. @ 4600~5400MHz	
				30 dB Min. @ 6900~8100MHz	
SLFL18-2R700G-04TF	2700	600~2700	0.5	30 dB Min. @ 4950~8100MHz 27 dB Min. @ 8100~12500MHz	0.60±0.10
SLFL18-2R700G-06TF	2700	2300~2700	0.45	25 dB Min. at 4600~5400MHz	
				25 dB Min. @ 6900~8100MHz	
SLFL18-2R700G-13TF	2700	300~2700	0.8	30 dB Min. @ 4600~5400MHz	
				30 dB Min. @ 6900~8100MHz	
				25 dB Min. @ 9200~10800MHz 20/15 dB Min. @ 11500~13500MHz	
SLFL18-2R700G-14TF	2700	600~2700	0.80	40 dB Min. at 3420~3600MHz	
				20 dB Min. at 5150~5960MHz	
SLFL18-2R700G-S09TF	2690	1710~1980	0.35	5 dB Min. @ 3296~3339MHz	
				17 dB Min. @ 3420~3570MHz	
				12 dB Min. @ 3700~3820MHz	
				16 dB Min. @ 3840~3960MHz	
				14 dB Min. @ 4120~4245MHz	
		2025~2690	0.50	14 dB Min. @ 4400~4574MHz	
				21 dB Min. @ 4944~5094MHz	
				30 dB Min. @ 5130~5335MHz	
				30 dB Min. @ 5550~5730MHz	
				30 dB Min. @ 5760~5845MHz	
				17 dB Min. @ 5846~5940MHz	
				4 dB Min. @ 6160~6405MHz	
SLFL18-2R700G-17TF	2700	1700~2700	0.50 dB Max. @ 1700~2170MHz	23 dB Min. @ 3420~3800MHz	0.65±0.10
			0.65 dB Max. @ 2170~2500MHz		
			0.90 dB Max. @ 2500~2700MHz	25 dB Min. @ 5150~5960MHz	
SLFL18-2R700G-18TF	2700	1700~2700	0.35 dB Max. @ 1710~1980MHz	5 dB Min. @ 3296~3339MHz	
			0.6 dB Max. @ 2025~2690MHz	23 dB Min. @ 3420~3960MHz	
				30 dB Min. @ 5130~5940MHz	
				20 dB Min. @ 6160~8250MHz	



规格特性 Specifications

SLFL18 TYPE

型号 Part Number	截止频率 Cut-off Frequency	带宽 Bandwidth	插入损耗 Max. IL in BW (@ 25°C)	带外抑制 Attenuation	厚度 Thickness
单位 Units	MHz	MHz	dB	dB	MM
符号 SyMbol	f_0	BW	IL	-	T
SLFL18-2R700G-41TF	2690	699~2690	0.18	20 dB Min. @ 5150~5960MHz	0.65±0.10
SLFL18-3R600G-11TF	3800	3300~3800	0.45	17 dB Min. @ 6600~7600MHz	
				20 dB Min. @ 9900~11400MHz	
SLFL18-3R600G-12TF	3800	3300~3800	0.60	35 dB Min. @ 6600~7600MHz	
				35 dB Min. @ 9900~11400MHz	
SLFL18-5R500G-31TF	5500	500~5500	1.0	20 dB Min. @ 6481~7681MHz	0.60±0.10
				20 dB Min. @ 7681~12000MHz	
SLFL18-5R950G-31TF	5950	4900~5950	0.70	20 dB Min. @ 9800MHz	
				30 dB Min. @ 11900MHz	

SLFL21 TYPE

型号 Part Number	截止频率 Cut-off Frequency	带宽 Bandwidth	插入损耗 Max. IL in BW (@ 25°C)	带外抑制 Attenuation	厚度 Thickness
单位 Units	MHz	MHz	dB	dB	MM
符号 Symbol	f_0	BW	IL	-	T
SLFL21-0R490G-01TF	490	100~490	0.5	15 dB Min. @ 840~900MHz	0.95±0.10
				20 dB Min. @ 900~6000MHz	
SLFL21-1R575G-01TF	1575	DC~1575	0.9	30 dB Min. @ 2175~2400MHz	
				40 dB Min. @ 2400~8500MHz	
SLFL21-1R700G-01TF	1700	10~1700	1.8	20 dB Min. @ 2400~2800MHz	1.02±0.10
				35 dB Min. @ 2800~8000MHz	
				35 dB Min. @ 8000~13000MHz	
SLFL21-1R880G-01TF	1880	1805~1880	0.4	30 dB Min. @ 3610~3760MHz	0.95±0.10
				20 dB Min. @ 5415~5640MHz	
SLFL21-0R902G-01TF	902.5	$f_0 \pm 12.5/$ 902~928	0.6/0.5	30 dB Min. @ $2 \times (f_0 \pm 50)$ MHz	0.95±0.10
				30 dB Min. @ $3 \times (f_0 \pm 50)$ MHz	

SLFL21 TYPE

型号 Part Number	截止频率 Cut-off Frequency	带宽 Bandwidth	插入损耗 Max. IL in BW (@ 25°C)	带外抑制 Attenuation	厚度 Thickness
单位 Units	MHz	MHz	dB	dB	MM
符号 Symbol	f_0	BW	IL	-	T
SLFL21-0R915G-S31TF	928	902~928	0.47	30 dB Min. @ 1804~1856MHz	0.95±0.10
				30 dB Min. @ 2706~2784MHz	
SLFL21-0R960G-S31TF	960	863~960	0.60	30 dB Min. @ 1726~1856MHz	
				30 dB Min. @ 2589~2784MHz	
SLFL21-2R025G-01TF	2025	1880~2025	1.3	20 dB Min. @ 2300~6100MHz	1.02±0.10
				30 dB Min. @ 3700~4100MHz	
				10 dB Min. @ 6100~8000MHz	
SLFL21-2R450G-01TF	2450	$f_0 \pm 50.0$	0.5	27 dB Min. @ $2 \times (f_0 \pm 50)$ MHz	0.95±0.10
				30 dB Min. @ $3 \times (f_0 \pm 50)$ MHz	
				30 dB Min. @ $4 \times (f_0 \pm 50)$ MHz	
SLFL21-2R500G-01TF	2500	DC~2500	1.2	25 dB Min. @ 3500~4000MHz	1.02±0.10
				35 dB Min. @ 4000~7000MHz	
SLFL21-2R700G-02TF	2700	1700~2700	0.4	20 dB Min. @ 4200~5400MHz	0.95±0.10
				20 dB Min. @ 6300~8100MHz	
SLFL21-5R500G-31TF	5950	4900~5950	0.7	30 dB Min. @ 9800~11900MHz	0.95±0.10
				20 dB Min. @ 14700~17850MHz	