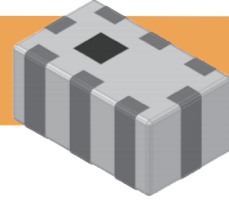


叠层片式 LC 低通滤波器—SLFL 系列 Multilayer Chip Low Pass LC Filter— SLFL Series



工作温度 Operating Temp

- ◆ $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

特征 Features

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

用途 Applications

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

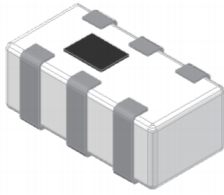
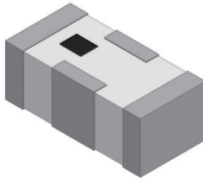
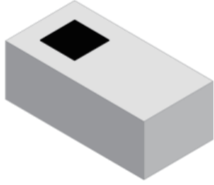
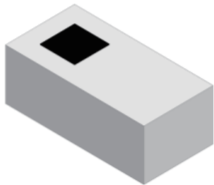
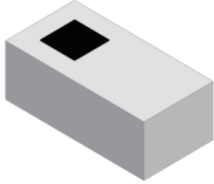
产品型号 Product Identification

1	2	3	4	5	6
SLFL	15	-2R025G	-01	T	F
1	2	3	4	5	6
分类 Type	外形尺寸 (L×W) (mm) External Dimensions (L×W) (mm)	截止频率 Cut-off Frequency	系列代号 Series Code	包装 Packing	无有害物质产品 Hazardous Substance Free Products
SLFL 低通滤波器 Low Pass LC Filter	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	01, 02, etc.	T 编带 Tape & Reel	F

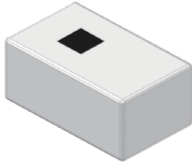
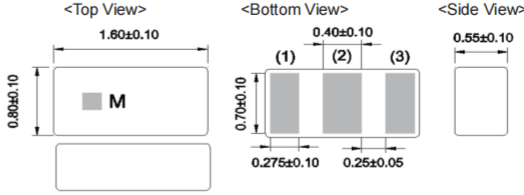
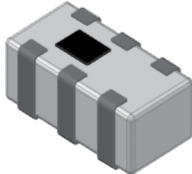
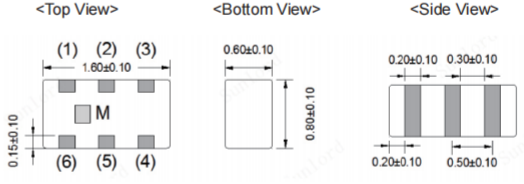
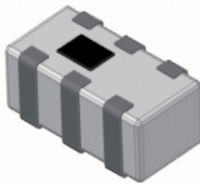
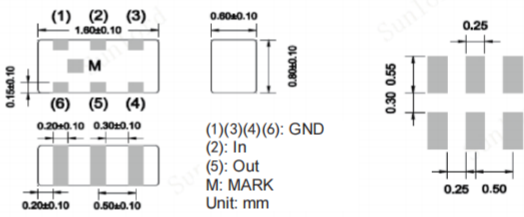
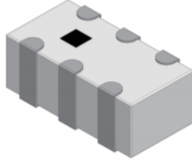
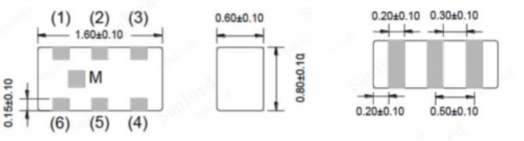
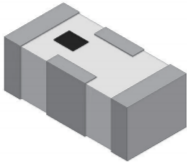
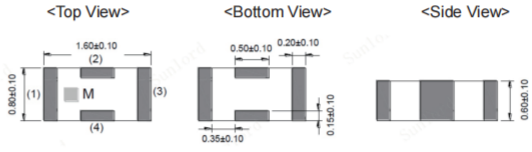
外观尺寸 Shape and Dimensions

Type: SLFL06 Series	Dimensions and Land Patterns
	<Top View> <Side View> (1): I/o port (2): I/o port (3): GND (4): GND M: MARK Unit: mm

外观尺寸 Shape and Dimensions

Type: SLFL15 Series	Dimensions and Land Patterns
	<Top View> <Bottom View> <Side View> 1.000±0.05 0.180±0.05 1.000±0.05 0.500±0.05 0.125±0.05 0.380±0.05 (1) (3) : NC (2) (5) : GND (4) (6) : In / Out M : MARK Unit : mm
SLFL15-0R960G-03TF/ SLFL15-2R025G-03TF	Dimensions and Land Patterns
	<Top View> <Bottom View> <Side View> 1.0±0.1 0.3±0.1 0.4±0.05 0.5±0.1 0.1±0.05 0.3±0.1 (1) : IN (2) : GND (3) : OUT (4) : GND M : MARK Unit : mm
SLFL15-2R700G-01/20TF/ SLFL15-5R950G-20TF	Dimensions and Land Patterns
	<Top View> <Bottom View> <Side View> 1.0±0.1 0.3±0.1 0.4±0.05 0.5±0.1 0.1±0.05 0.1±0.05 (1) (3) : In / Out (2) (4) : GND M : MARK Unit : mm
SLFL15-7R125G-01TF	Dimensions and Land Patterns
	<Top View> <Bottom View> <Side View> 1.00±0.05 0.20±0.10 0.40±0.05 0.50±0.05 0.12±0.07 0.30±0.10 (1) (2) : In/Out (3) (4) : GND M : MARK Unit : mm
SLFL15-7R125G-03TF	Dimensions and Land Patterns
	<Top View> <Bottom View> <Side View> 1.0±0.1 0.3±0.1 0.4±0.05 0.5±0.1 0.1±0.05 0.1±0.05 (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
	<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
	<Top View> <Bottom View> <Side View>  (1)(3): In/Out (2)(4)(6): GND (5): NC M: MARK Unit: mm
SLFL18-0R960G-03TF/ SLFL18-2R700G-13TF	Dimensions and Land Patterns
	<Top View> <Bottom View> <Side View>  (1)(3)(4)(6): GND (2): In (5): Out M: MARK Unit: mm
SLFL18-2R700G-06TF	Dimensions and Land Patterns
	<Top View> <Bottom View> <Side View>  (2)(5): GND (1): In (3): Out (4)(6): N.C. M: MARK Unit: mm
SLFL18-1R850G-01TF/ SLFL18-5R950G-31TF	Dimensions and Land Patterns
	<Top View> <Bottom View> <Side View>  (1)(3): In/Out (2)(4): GND M: MARK Unit: mm

外观尺寸 Shape and Dimensions

SLFL18-0R960G-S09/31/41TF/ SLFL18-2R700G-14/S09/17/18/41TF	Dimensions and Land Patterns <Top View> <Bottom View> <Side View> (1)(3): In/Out (2)(4): GND M: MARK Unit: mm
Type: SLFL21 Series	Dimensions and Land Patterns (1)(3)(5)(7): GND (2)(6): NC (4): Out (8): In M: MARK Unit: mm
SLFL21-0R490G-01TF	Dimensions and Land Patterns <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 (1)(3)(5)(7): GND (2)(6): NC (4): Out (8): In M: MARK Unit: mm
SLFL21-1R880G-01TF/ SLFL21-2R700G-02TF	Dimensions and Land Patterns (1): In (2): Out (3)(4): GND M: MARK Unit: mm

Multilayer Chip
LC Filter

Multilayer Chip
Balun

Multilayer Chip
Diplexer

Multilayer Chip
Triplexer

Multilayer Chip LC
Coupler

Multilayer Chip
Antenna

Wire Wound Chip
Balun Transformer

Ceramic Dielectric
Filter

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 25 dB Min.@2238~2361MHz	0.38±0.05
SLFL15-0R960G-01TF	960	698~960	0.6	13.0dB Min.@1565~1610MHz	
				35.0dB Min.@1805~1830MHz	
				35.0dB Min.@2110~2170MHz	
				30.0dB Min.@1710~2700MHz	
SLFL15-0R960G-03TF	960	699~960	0.5	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	20 dB Min.@3350~4360MHz	0.45
				45 dB Min.@5085~6540MHz	
				43 dB Min.@6540~6600MHz	
		2180~2200	0.63	23 dB Min.@9025~10050MHz	
				20 dB Min.@10050~10100MHz	
				12 dB Min.@11000~12750MHz	
SLFL15-2R700G-01TF	2700	2300~2700	0.45	30dB Min.@4600~5400MHz	0.40±0.05
				30dB Min.@6900~8100MHz	
SLFL15-2R700G-02TF	2700	2300~2700	0.5	25 dB Min.@4600~5400MHz	
				25 dB 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	20 dB Min.@9800~11900MHz	
SLFL15-7R125G-01TF	7125	5150~7125	0.55	10 dB Min.@10300~14250MHz	
				20 dB Min.@15450~21375MHz	
SLFL15-7R125G-03TF	7125	5150~7125	0.55	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_c	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	
SLFL18-0R787G-11TF	787	470~787	0.65	19 dB Min.@4900~5900MHz	0.60±0.10
				26 dB Min.@1429~1501MHz	
				35 dB Min.@1554~1574MHz	
				30 dB Min.@1580~1607MHz	
SLFL18-0R960G-03TF	960	698~960	0.7	20 dB Min.@1920~1980MHz	0.60±0.10
				30 dB Min.@1554~1610MHz	
				35 dB Min.@1805~1830MHz	
				35 dB Min.@2110~2170MHz	
SLFL18-0R960G-11TF	960	698~960	0.75	30 dB Min.@1710~2700MHz	0.80±0.10
				28 dB Min.@1427~1920MHz	
SLFL18-0R960G-S09TF	960	698~960	0.35	30 dB Min.@2097~2880MHz	0.60±0.10
				12 dB Min.@1574~1605MHz	
				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	0.60±0.10
				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	

Multilayer Chip
LC Filter

Multilayer Chip
Balun

Multilayer Chip
Diplexer

Multilayer Chip
Triplexer

Multilayer Chip LC
Coupler

Multilayer Chip
Antenna

Wire Wound Chip
Balun Transformer

Ceramic Dielectric
Filter

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-31TF	960	698~960	0.9	20 dB Min.@1350~1920MHz 48 dB Min.@2070~2880MHz	0.60±0.10
SLFL18-0R960G-41TF	960	600~960	0.35	25 dB Min.@1738~1920MHz 25 dB Min.@2400~3500MHz	
SLFL18-1R600G-01TF	1600	1608~1624	1.0	35 dB@3216 ~ 3248MHz 35 dB@3824 ~ 4872MHz	
SLFL18-1R850G-01TF	1850	1710~1990	0.5/0.55	30.5 dB@3420 ~ 3980MHz 28.5 dB@5130 ~ 5970MHz	
SLFL18-2R025G-01TF	2025	1710~2025	1.2	20 dB Min.@2400~2500MHz 20 dB Min.@4020~4045MHz 25 dB Min.@6030~6075MHz	0.80±0.10
SLFL18-2R025G-11TF	2025	1880~2025	0.65	26 dB Min.@3760 ~4050MHz 28 dB Min.@5640 ~6075MHz	0.60±0.10
SLFL18-2R025G-06TF	2025	1710~2025	0.55	27 dB Min.@3420~3840MHz 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	0.70±0.10
SLFL18-2R025G-31TF	2025	1710~2025	0.4	25 dB Min. @ 3420~4050MHz 25 dB Min. @ 5130~6075MHz 25 dB Min. @ 8100~12500MHz	0.55±0.10
SLFL18-2R700G-02TF	2700	673~2690	0.5	35 dB Min. @t 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	
SLFL18-2R700G-06TF	2700	2300~2700	0.45	25 dB Min. @ 4600~5400MHz 25 dB Min. @ 6900~8100MHz	0.60±0.10
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. @ 3420~3600MHz 20 dB Min. @ 5150~5960MHz	

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℃)	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-S09TF	2690	1710~1980	0.35	5 dB Min. @ 3296~3339MHz	0.60 ± 0.10
				17 dB Min. @ 3420~3570MHz	
				12 dB Min. @ 3700~3820MHz	
				16 dB Min. @ 3840~3960MHz	
				14 dB Min. @ 4120~4245MHz	
				14 dB Min. @ 4400~4574MHz	
		2025~2690	0.50	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	
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	0.65 ± 0.10
				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	0.60 ± 0.10
				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℃)	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	
SLFL21-1R880G-01TF	1880	1805~1880	0.4	35 dB Min. @ 8000~13000MHz	0.95 ± 0.10
				30 dB Min. @ 3610~3760MHz	
SLFL21-1R880G-01TF	1880	1805~1880	0.4	20 dB Min. @ 5415~5640MHz	
				30 dB Min. @ 2 × ($f_0 \pm 50$) MHz	
SLFL21-0R902G-01TF	902.5	$f_0 \pm 12.5$ / 902~928	0.6/0.5	30 dB Min. @ 3 × ($f_0 \pm 50$) MHz	
				30 dB Min. @ 3 × ($f_0 \pm 50$) MHz	

规格特性

Specifications

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 30 dB Min.@2706~2784MHz	0.95 ± 0.10
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	
				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	
				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	1.02 ± 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	