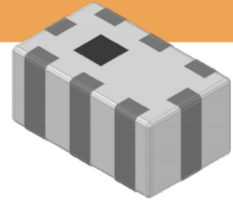


Multilayer Chip Low Pass LC Filter– SLFL Series

Operating temp. : -40°C ~+ 85°C



- FEATURES**
- ◆ Small size, light weight
 - ◆ Low insertion loss
 - ◆ Centre frequencies and responses are ready for customization
 - ◆ Inside shielding
 - ◆ SMD chip based on LTCC technology

- APPLICATIONS**
- ◆ LTE, 5G mobile communication systems
 - ◆ Base station application
 - ◆ Bluetooth, Wi-Fi, NB-IoT etc.

PRODUCT IDENTIFICATION

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

1	Type
SLFL	Low Pass LC Filter

2	External Dimensions (L×W) (MM)
06 [0202]	0.6×0.5
15 [0402]	1.0×0.5
18 [0603]	1.6×0.8
21 [0805]	2.0×1.2

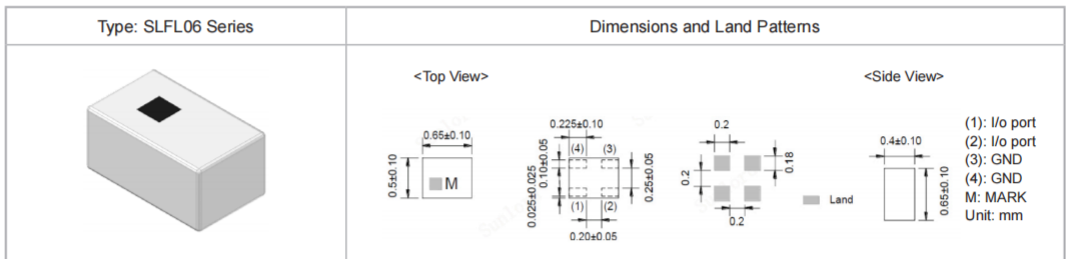
3	Cut-off Frequency
Example	Nominal Value
0R960G	960.0MHz
2R025G	2025.0MHz

4	Series Code
	01, 02, etc.

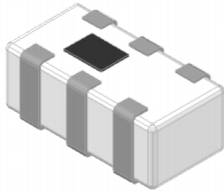

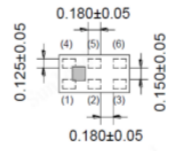
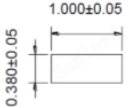
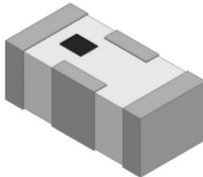
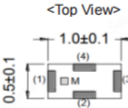
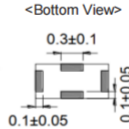

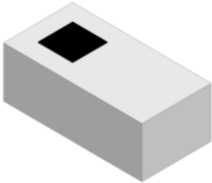

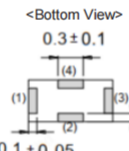
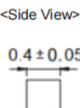
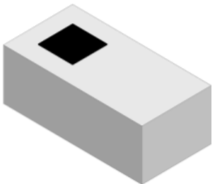
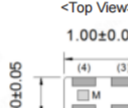

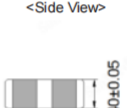
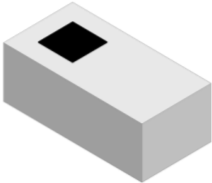
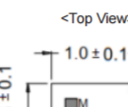
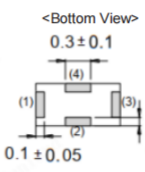
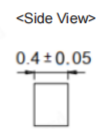
5	Packing
T	Tape & Reel

6	Hazardous Substance Free Products
	F

SHAPE AND DIMENSIONS



SHAPE AND DIMENSIONS

<p>Type: SLFL15 Series</p> 	<p>Dimensions and Land Patterns</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><Top View></p>  </div> <div style="text-align: center;"> <p><Bottom View></p>  </div> <div style="text-align: center;"> <p><Side View></p>  </div> </div> <p>(1) (3) : NC (2) (5) : GND (4) (6) : In / Out M : MARK Unit : mm</p>
<p>SLFL15-0R960G-03TF/ SLFL15-2R025G-03TF</p> 	<p>Dimensions and Land Patterns</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><Top View></p>  </div> <div style="text-align: center;"> <p><Bottom View></p>  </div> <div style="text-align: center;"> <p><Side View></p>  </div> </div> <p>(1) : IN (2) : GND (3) : OUT (4) : GND M : MARK Unit : mm</p>
<p>SLFL15-2R700G-01/20TF/ SLFL15-5R950G-20TF</p> 	<p>Dimensions and Land Patterns</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><Top View></p>  </div> <div style="text-align: center;"> <p><Bottom View></p>  </div> <div style="text-align: center;"> <p><Side View></p>  </div> </div> <p>(1) (3) : In / Out (2) (4) : GND M : MARK Unit : mm</p>
<p>SLFL15-7R125G-01TF</p> 	<p>Dimensions and Land Patterns</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><Top View></p>  </div> <div style="text-align: center;"> <p><Bottom View></p>  </div> <div style="text-align: center;"> <p><Side View></p>  </div> </div> <p>(1) (2) : In/Out (3) (4) : GND M : MARK Unit : mm</p>
<p>SLFL15-7R125G-03TF</p> 	<p>Dimensions and Land Patterns</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><Top View></p>  </div> <div style="text-align: center;"> <p><Bottom View></p>  </div> <div style="text-align: center;"> <p><Side View></p>  </div> </div> <p>(1) (3) : In / Out (2) (4) : GND M : MARK Unit : mm</p>

Multilayer Chip LC Filter

Multilayer Chip Balun

Multilayer Chip Diplexer

Multilayer Chip Triplexer

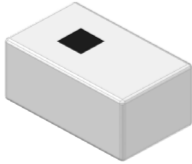
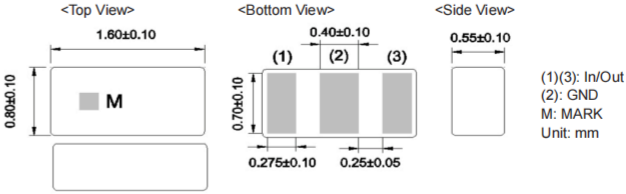
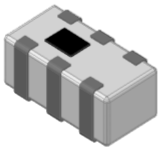
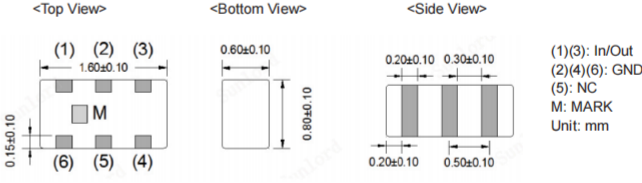

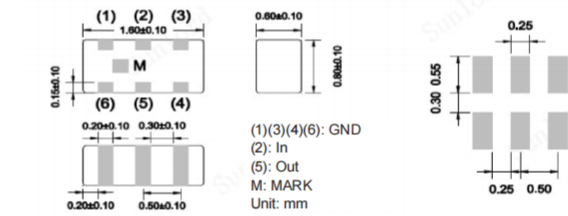
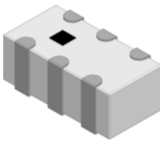
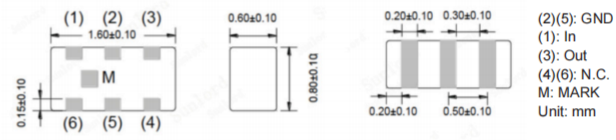
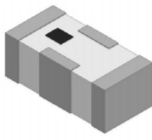
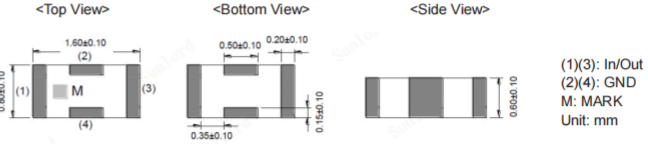
Multilayer Chip LC Coupler

Multilayer Chip Antenna

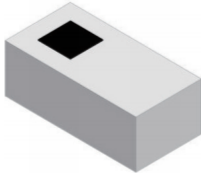
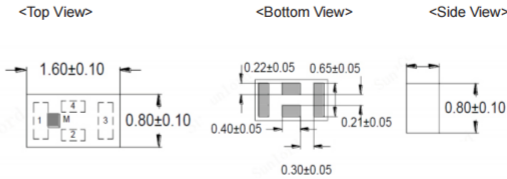
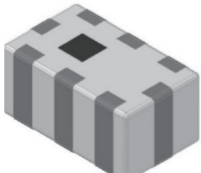
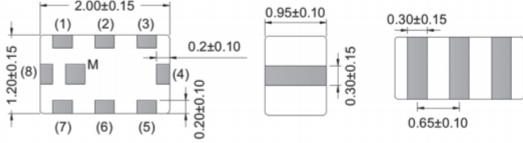
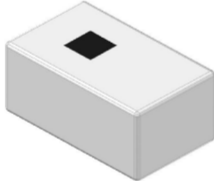
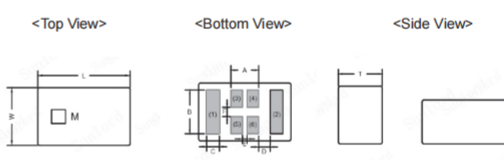
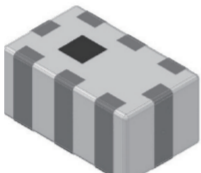
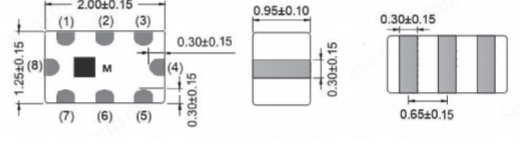
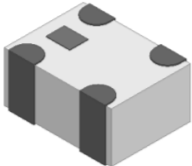
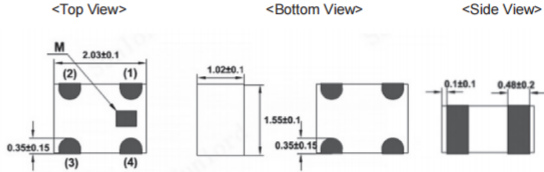
Wire Wound Chip Balun Transformer

Ceramic Dielectric Filter

SHAPE AND DIMENSIONS

<p>Type: SLFL18 Series</p> 	<p>Dimensions and Land Patterns</p>  <p>(1)(3): In/Out (2): GND M: MARK Unit: mm</p>
<p>SLFL18-0R787G-11TF/ SLFL18-0R960G-11TF/ SLFL18-3R600G-11TF/ SLFL18-2R025G-11TF</p>	<p>Dimensions and Land Patterns</p>
	<p><Top View> <Bottom View> <Side View></p>  <p>(1)(3): In/Out (2)(4)(6): GND (5): NC M: MARK Unit: mm</p>
<p>SLFL18-0R960G-03TF/ SLFL18-2R700G-13TF</p>	<p>Dimensions and Land Patterns</p>
	<p><Top View> <Bottom View> <Side View></p>  <p>(1)(3)(4)(6): GND (2): In (5): Out M: MARK Unit: mm</p>
<p>SLFL18-2R700G-06TF</p>	<p>Dimensions and Land Patterns</p>
	<p><Top View> <Bottom View> <Side View></p>  <p>(2)(5): GND (1): In (3): Out (4)(6): N.C. M: MARK Unit: mm</p>
<p>SLFL18-1R850G-01TF/ SLFL18-5R950G-31TF</p>	<p>Dimensions and Land Patterns</p>
	<p><Top View> <Bottom View> <Side View></p>  <p>(1)(3): In/Out (2)(4): GND M: MARK Unit: mm</p>

SHAPE AND DIMENSIONS

<p>SLFL18-0R960G-S09/31/41TF/ SLFL18-2R700G-14/S09/17/18/41TF</p>	<p>Dimensions and Land Patterns</p>
	<p><Top View> <Bottom View> <Side View></p>  <p>(1)(3): In/Out (2)(4): GND M: MARK Unit: mm</p>
<p>Type: SLFL21 Series</p>	<p>Dimensions and Land Patterns</p>
	<p><Top View> <Bottom View> <Side View></p>  <p>(1)(3)(5)(7): GND (2)(6): NC (4): Out (8): In M: MARK Unit: mm</p>
<p>SLFL21-0R490G-01TF</p>	<p>Dimensions and Land Patterns</p>
	<p><Top View> <Bottom View> <Side View></p>  <p>(1): In (2): Out (3)(4)(5)(6): GND M: MARK Unit: mm</p>
<p>SLFL21-1R575G-01TF/ SLFL21-1R700G-01TF/ SLFL21-2R500G-01TF</p>	<p>Dimensions and Land Patterns</p>
	<p><Top View> <Bottom View> <Side View></p>  <p>(1)(3)(5)(7): GND (2)(6): NC (4): Out (8): In M: MARK Unit: mm</p>
<p>SLFL21-1R880G-01TF/ SLFL21-2R700G-02TF</p>	<p>Dimensions and Land Patterns</p>
	<p><Top View> <Bottom View> <Side View></p>  <p>(1): In (2): Out (3)(4): GND M: MARK Unit: mm</p>

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

SPECIFICATIONS SLFL06 TYPE

Part Number	Cut-off Frequency	Bandwidth	Max. IL in BW (@ 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	mm
Symbol	f ₀	BW	IL	-	T
SLFL06-0R787G-01TF	787	777~787	0.7	30 dB Min.@1554~1607MHz 19 dB Min.@2400~2500MHz 9 dB Min.@5150~5850MHz	0.40
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 0.7 dB max. @915~960MHz	20 dB min.@1648~1830MHz 20 dB min.@1830~1920MHz 20 dB min.@2472~2745MHz 20 dB min.@2745~2880MHz	0.40
SLFL06-1R910G-01TF	1910	1710~1910	0.6	30 dB min.@3420~3820MHz 20 dB min.@5130~5730MHz	0.40

SLFL15 TYPE

Part Number	Cut-off Frequency	Bandwidth	Max. IL in BW (@ 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	mm
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	
SLFL15-2R025G-01TF	2025	1710~2025	1.4	10 dB Min.@2400~2500MHz 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	0.38±0.05
SLFL15-2R025G-03TF	2025	1710~2025	0.45 dB Max. @1710~1910MHz 0.5 dB Max. @1910~2025MHz	22 dB Min.@3420~3820MHz 25 dB Min.@3820~4050MHz 25 dB Min.@5130~6075MHz	
SLFL15-2R025G-20TF	2200	1695~2180 2180~2200	0.6 0.63	20 dB min.@3350~4360MHz 45 dB min.@5085~6540MHz 43 dB min.@6540~6600MHz 23 dB min.@9025~10050MHz 20 dB min.@10050~10100MHz 12 dB min.@11000~12750MHz	0.45
SLFL15-2R700G-01TF	2700	2300~2700	0.45	30dB Min.@4600~5400MHz 30dB Min.@6900~8100MHz	0.40±0.05
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	

SPECIFICATIONS SLFL18 TYPE

Part Number	Cut-off Frequency	Bandwidth	Max. IL in BW (@ 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	mm
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	
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	
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	
SLFL18-0R960G-11TF	960	698~960	0.75	35 dB Min.@2110~2170MHz	0.80±0.10
				30 dB Min.@1710~2700MHz	
				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					



SPECIFICATIONS SLFL18 TYPE

Part Number	Cut-off Frequency	Bandwidth	Max. IL in BW (@ 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	mm
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 Min.@3216 ~ 3248MHz 35 dB Min.@3824 ~ 4872MHz	
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 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.@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	

SPECIFICATIONS SLFL18 TYPE

Part Number	Cut-off Frequency	Bandwidth	Max. IL in BW (@ 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	mm
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			
		21 dB Min. @ 4944~5094MHz	0.50		
		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	0.65±0.10
			0.6 dB Max. @2025~2690MHz	23 dB Min. @3420~3960MHz	
				30 dB Min. @5130~5940MHz	
				20 dB Min. @6160~8250MHz	
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	0.65±0.10
				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

Part Number	Cut-off Frequency	Bandwidth	Max. IL in BW (@ 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	mm
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	0.95±0.10
				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	1.02±0.10
				20 dB Min. @5415~5640MHz	
SLFL21-0R902G-01TF	902.5	$f_0 \pm 12.5 / 902 \sim 928$	0.6/0.5	30 dB Min. @2×($f_0 \pm 50$) MHz	0.95±0.10
				30 dB Min. @3×($f_0 \pm 50$) MHz	



SPECIFICATIONS SLFL21 TYPE

Part Number	Cut-off Frequency	Bandwidth	Max. IL in BW (@ 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	mm
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	
				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	
				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	