



THE DATASHEET OF SLFL18-0R960G-03TF



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	2	3	4	5	6
SLFL	15	-2R025G	-01	T	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.

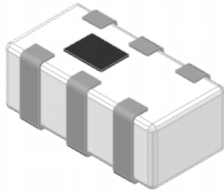
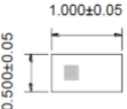
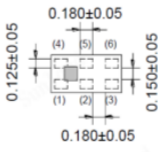
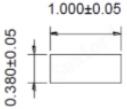
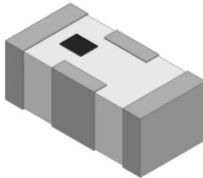
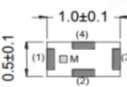
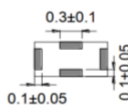
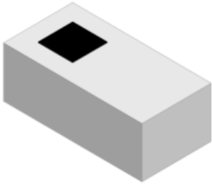
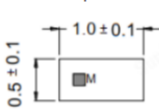
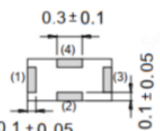
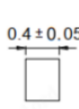
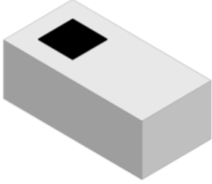
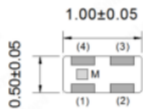
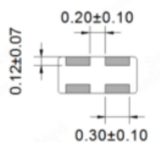
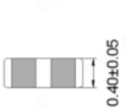
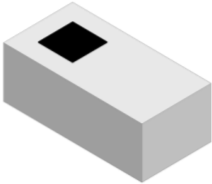
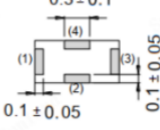
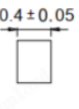
5	Packing
T	Tape & Reel

6	Hazardous Substance Free Products
	F

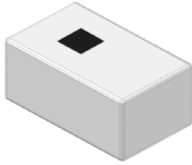
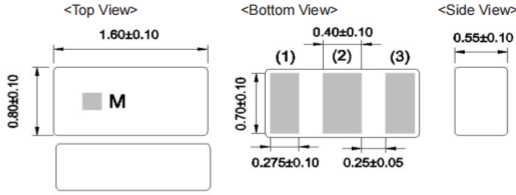
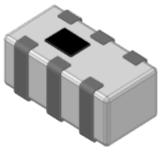
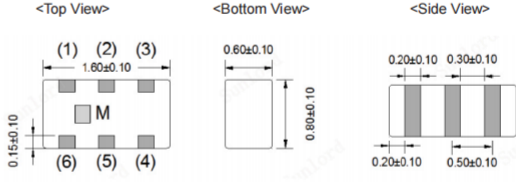
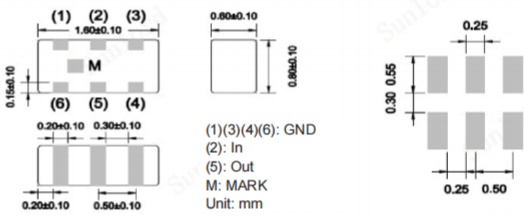
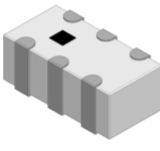
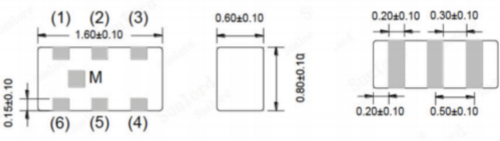
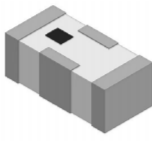
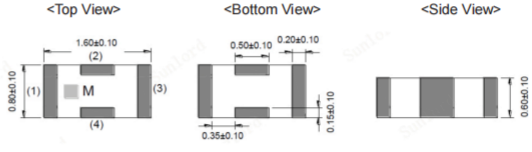
SHAPE AND DIMENSIONS

Type: SLFL06 Series	Dimensions and Land Patterns
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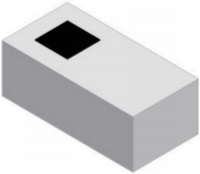
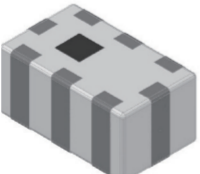
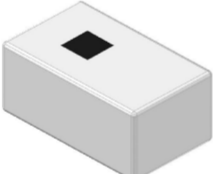
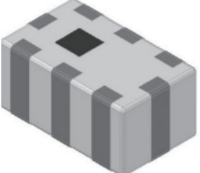
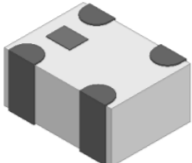
SHAPE AND
DIMENSIONS

Type: SLFL15 Series	Dimensions and Land Patterns		
	<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		
	<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		
	<Top View> 	<Bottom View> 	<Side View>  (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) (2) : In/Out (3) (4) : GND M : MARK Unit : mm
SLFL15-7R125G-03TF	Dimensions and Land Patterns		
	<Top View> 	<Bottom View> 	<Side View>  (1) (3) : In / Out (2) (4) : GND M : MARK Unit : mm

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

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 <Top View> <Bottom View> <Side View> (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 <Top View> <Bottom View> <Side View> (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 <Top View> <Bottom View> <Side View> (1): In (2): Out (3)(4): GND M: MARK Unit: mm

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	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
				20 dB min.@1830~1920MHz	
			0.7 dB max. @915~960MHz	20 dB min.@2472~2745MHz	
				20 dB min.@2745~2880MHz	
SLFL06-1R910G-01TF	1910	1710~1910	0.6	30 dB min.@3420~3820MHz	0.40
				20 dB min.@5130~5730MHz	

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	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	
				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	

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	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	
SLFL18-0R960G-22TF	960	698~960	0.5	14 dB min.@7416~7614MHz	0.60±0.10
				4 dB min.@7920~8235MHz	
				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	

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	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 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	0.60±0.10
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	
				30 dB Min.@4600~5400MHz	
SLFL18-2R700G-13TF	2700	300~2700	0.8	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	
		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

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	
				40 dB Min. @ 2400~8500MHz	
SLFL21-1R700G-01TF	1700	10~1700	1.8	20 dB Min. @ 2400~2800MHz	
				35 dB Min. @ 2800~8000MHz	
SLFL21-1R880G-01TF	1880	1805~1880	0.4	35 dB Min. @ 8000~13000MHz	1.02±0.10
				30 dB Min. @ 3610~3760MHz	
SLFL21-1R880G-01TF	1880	1805~1880	0.4	20 dB Min. @ 5415~5640MHz	1.02±0.10
				30 dB Min. @ 5415~5640MHz	
SLFL21-0R902G-01TF	902.5	$f_0 \pm 12.5 / 902 \sim 928$	0.6/0.5	30 dB Min. @ $2 \times (f_0 \pm 50)$ MHz	0.95±0.10
				30 dB Min. @ $3 \times (f_0 \pm 50)$ 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 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 35 dB Min.@4000~7000MHz	
SLFL21-2R700G-02TF	2700	1700~2700	0.4	20 dB Min.@4200~5400MHz 20 dB Min.@6300~8100MHz	1.02±0.10
SLFL21-5R500G-31TF	5950	4900~5950	0.7	30 dB Min.@9800~11900MHz 20 dB Min.@14700~17850MHz	0.95±0.10

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