

Multilayer Chip LC Band Pass Filter – SLFB Series

Operating Temp. : -40°C ~+ 85°C/ -55°C ~+ 125°C



FEATURES

- Small and low profile enables high density mounting
- Low insertion loss and high attenuation
- Excellent solderability

APPLICATIONS

- Mobile communication equipment for GSM, LTE, 5G systems, etc.
- Bluetooth, WLAN, Wi-Fi etc.
- Base station application

PRODUCT IDENTIFICATION

SLFB
①

18
②

-2R450G
③

-07
④

I
⑤

F
⑥

① Type	
SLFB	Bandpass LC Filter

② (L×W) (MM)	
External Dimensions (L×W) (MM)	
15 [0402]	1.0×0.5
18 [0603]	1.6×0.8
19 [0403]	1.1×0.9
21 [0805]	2.0×1.2
22 [1008]	2.5×2.0
32 [1210]	3.2×2.5

③ Center Frequency	
Example	Nominal Value
1R917G	1910MHz
2R450G	2450MHz
5R550G	5550MHz

④ Series Code	
07 etc.	


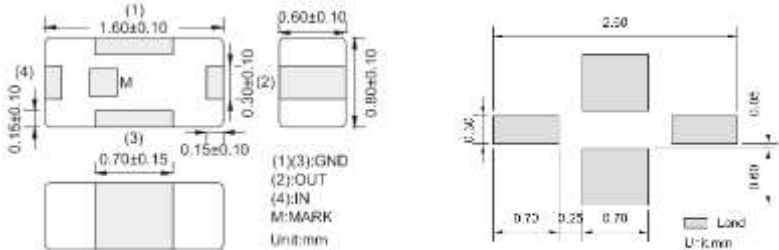

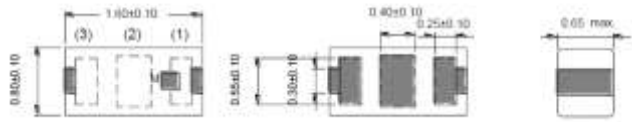

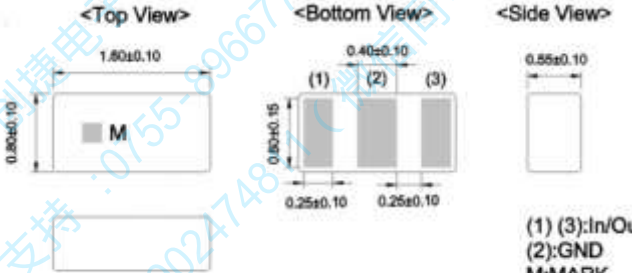

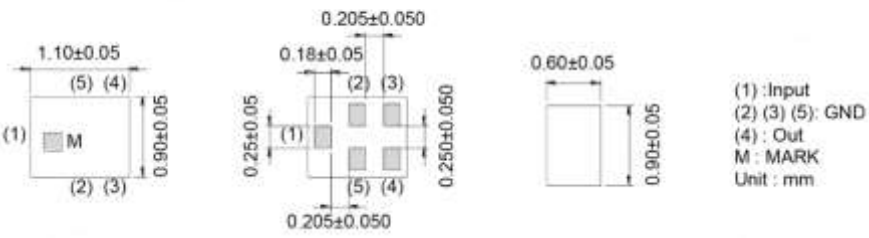
⑤ Packing	
T	Tape & Reel

⑥ Hazardous Substance Free Products	
F	


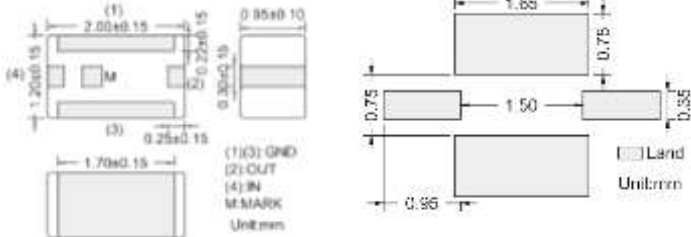

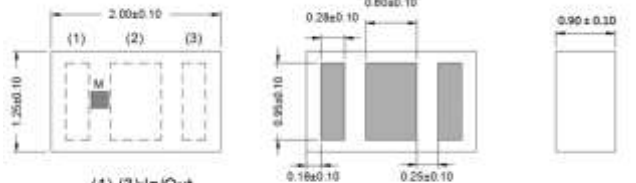

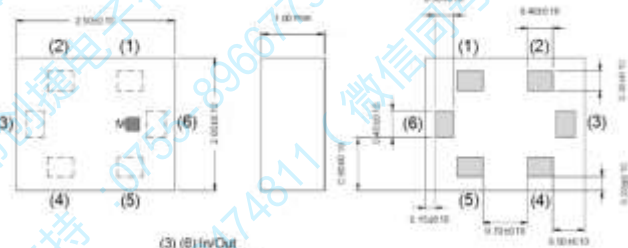
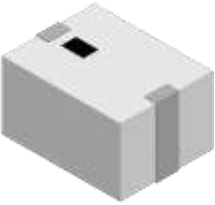
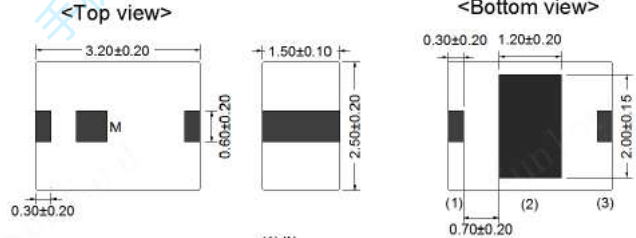
SHAPE AND DIMENSIONS

SLFB15-2R450G-02TF	<p>Dimensions and Land Patterns</p>
SLFB15-2R450G-31TF	<p>Dimensions and Land Patterns</p>

SHAPE AND DIMENSIONS

<p>Type: SLFB18 Series</p> 	<p>Dimensions and Land Patterns</p>  <p>(1)(3):GND (2):OUT (4):IN M:MARK Unit:mm</p> <p>U:ic,mm</p>
<p>SLFB18-2R450G-31/36TF/ SLFB18-3R800G-01/03TF/ SLFB18-4R700G-03TF</p>	<p>Dimensions and Land Patterns</p>  <p><Top View> <Bottom View> <Side View></p>  <p>(1) (3):In/Out (2):GND M:MARK Unit:mm</p>
<p>SLFB18-5R500G-33/34/38/39TF/ SLFB18-5R900G-01TF</p>	<p>Dimensions and Land Patterns</p>  <p><Top View> <Bottom View> <Side View></p>  <p>(1) (3):In/Out (2):GND M:MARK Unit:mm</p>
<p>SLFB19-2R450G-03TF</p>	<p>Dimensions and Land Patterns</p>  <p><Top View> <Bottom View> <Side View></p>  <p>(1) :Input (2) (3) (5): GND (4) : Out M : MARK Unit : mm</p>

SHAPE AND DIMENSIONS

<p>Type: SLFB21 Series</p> 	<p>Dimensions and Land Patterns</p>  <p>(1) GND (2) CUT (3) IN M: MARK Unit:mm</p>
<p>SLFB21-2R450G-31/33TF SLFB21-3R600G-41TF/ SLFB21-3R800G-17TF/ SLFB21-4R700G-19TF/ SLFB21-4R900G-31TF</p>	<p>Dimensions and Land Patterns</p>
	<p><Top View> <Bottom View> <Side View></p>  <p>(1) (3): In/Out (2): GND M: MARK Unit:mm</p>
<p>Type: SLFB22 Series</p>	<p>Dimensions and Land Patterns</p>
	 <p>(3) (6) In/Out (1) (2) (4) (5): GND M: MARK Unit:mm</p>
<p>Type: SLFB32 Series</p>	<p>Dimensions and Land Patterns</p>
	<p><Top view> <Bottom view></p>  <p>(1): IN (2): GND (3): OUT M: MARK Unit:mm</p>

SPECIFICATIONS

SLFB15 TYPE

Part Number	Center Frequency	Pass Band	Max. IL in PB (at 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	MM
Symbol	f_0	PB	IL	-	T
SLFB15-2R450G-02TF	2450	$f_0 \pm 50.0$	1.4	25 dB Min. at 880~960MHz	0.38±0.05
				8.0 dB Min. at 1710~1970MHz	
				23 dB Min. at 4800~5000MHz	
				32dB Min. at 7200~7500MHz	
SLFB15-2R450G-31TF	2450	$f_0 \pm 50.0$	1.3	9 dB Min. at DC~915 MHz	
				34 dB Min. at 4800~5000 MHz	
				27 dB Min. at 7200~7500 MHz	

SLFB18 TYPE

Part Number	Center Frequency	Pass Band	Max. IL in PB (at 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	MM
Symbol	f_0	PB	IL	-	T
SLFB18-1R910G-01TF	1910	1805~2025	1.65	30 dB at 700~950MHz	0.80±0.10
				15 dB at 950~1050MHz	
				25 dB at 2400~2500MHz	
				35 dB at 2700~5400MHz	
				20 dB at 5500~12500MHz	
SLFB18-1R950G-31TF	1950	1880~2025	2.1	30 dB at 700~950MHz	
				28 dB at 950~1050MHz	
				20 dB at 1545~1610MHz	
				23 dB at 2400~2500MHz	
				20 dB. at 2700~5150MHz	
SLFB18-2R450G-07TF	2450	2400~2500	1.8	30 dB Min. at 800~960MHz	
				30 dB Min. at 1710~1990MHz	
				30 dB Min. at 4800~5000MHz	
				30 dB Min. at 7200~7500MHz	
SLFB18-2R450G-31TF	2450	$f_0 \pm 50.0$	0.95	20 dB at 500~960MHz	
				23 dB at 3200~3312MHz	
				30 dB at 4800~5000MHz	
				32 dB at 7200~7500MHz	
SLFB18-2R450G-32TF	2495	2300~2690	2.0	12 dB Min. at 500~1800MHz	
				25 dB Min. at 3600~4000MHz	
SLFB18-2R450G-36TF	2450	2400~2500	0.95	20 dB at 500~960MHz	
				23 dB at 3200~3312MHz	
				30 dB at 4800~5000MHz	
				32 dB at 7200~7500MHz	
SLFB18-3R800G-01TF	3800	3300~4200	1.5	30 dB Min. at DC~693MHz	
				30 dB Min. at 693~2300MHz	
				30 dB Min. at 2300~2690MHz	
				18 dB Min. at 5150~5470MHz	
				25 dB Min. at 5470~5925MHz	
				25 dB Min. at 6600~8400MHz	
25 dB Min. at 9900~12600MHz					

SPECIFICATIONS

SLFB18 TYPE

Part Number	Center Frequency	Pass Band	Max. IL in PB (at 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	MM
Symbol	f_0	PB	IL	-	T
SLFB18-4R700G-03TF	4700	4400~5000	1.5	38 dB Min. at DC~693MHz	0.55±0.10
				38 dB Min. at 693~2690MHz	
				12 dB Min. at 5470~5735MHz	
				18 dB Min. at 5735~5925MHz	
				27 dB Min. at 8800~10000MHz	
SLFB18-3R800G-03TF	3800	3300~4200	1.9	25 dB Min. at 13200~15000MHz	0.55±0.10
				38 dB Min. at DC~693MHz	
				38 dB Min. at 693~2300MHz	
				36 dB Min. at 2300~2690MHz	
				20 dB Min. at 5150~5470MHz	
				25 dB Min. at 5470~5925MHz	
SLFB18-5R500G-01TF	5512.5	$f_0 \pm 362.5$	1.5	25 dB Min. at 6600~8400MHz	0.55±0.10
				25 dB Min. at 9900~12600MHz	
SLFB18-5R500G-31TF	5512.5	$f_0 \pm 362.5$	1.5	30 dB Min. at 800~3800MHz	0.55±0.10
				15 dB Min. at 10000~12000MHz	
				33 dB at 100~2170MHz	
				29 dB at 2170~2500MHz	
				15 dB at 6900~7000MHz	
SLFB18-5R500G-33TF	5500	5150~5925	1.5	16 dB at 7000~7200MHz	0.55±0.10
				16 dB at 7200~7800MHz	
				32 dB at 9800~12000MHz	
				35 dB at 700~2690MHz	
				28 dB at 3300~4200MHz	
				3.5 dB at 4400~4600MHz	
				0.5 dB at 5950~6000MHz	
				0.5 dB at 6000~6900MHz	
15 dB at 6900~7200MHz					
SLFB18-5R500G-34TF	5425	5000~5850	1.5	20 dB at 7200~9800MHz	0.55±0.10
				20 dB at 9800~11700MHz	
SLFB18-5R500G-36TF	5425	5000~5850	1.5	35 dB at 14700~17850MHz	0.55±0.10
				35 dB at 700~2690MHz	
SLFB18-5R500G-36TF	5370	4900~5840	1.5	10 dB at 6900~7200MHz	0.65±0.10
				33 dB Min. at 100~2170MHz	
				29 dB Min. at 2170~2500MHz	
				15 dB Min. at 6900~7800MHz	
SLFB18-5R500G-38TF	5550	5150~5950	0.8	32 dB Min. at 9800~12000MHz	0.55±0.10
				35 dB at 30~2700MHz	
				30 dB at 3400~3800MHz	
				15 dB at 7200~7800MHz	
SLFB18-5R500G-38TF	5550	5150~5950	0.8	20 dB at 10300~11700MHz	0.55±0.10

SPECIFICATIONS

SLFB18 TYPE

Part Number	Center Frequency	Pass Band	Max. IL in PB (at 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	MM
Symbol	f ₀	PB	IL	-	T
SLFB18-5R900G-01TF	5900	5855~5925	1.1	35 dB at 100~2700MHz	0.70±0.1
				30 dB at 2700~3600MHz	
				25 dB at 3600~3800MHz	
				25 dB at 3800~4000MHz	
				20 dB at 4000~4400MHz	
				16 dB at 7000~7400MHz	
				16 dB at 7400~9750MHz	
				20 dB at 9750~10300MHz	
SLFB18-5R500G-39TF	5425	4900~5950	1	35 dB at 30~2700MHz	0.55±0.10
				33 dB at 3400~3800MHz	
				9 dB at 6900~7000MHz	
				15 dB at 7200~7500MHz	
				20 dB at 9800~11900MHz	

SLFB19 TYPE

Part Number	Center Frequency	Pass Band	Max. IL in PB (at 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	MM
Symbol	f ₀	PB	IL	-	T
SLFB19-2R450G-03TF	2450	2400~2500	1	20 dB Min. at 50~960MHz	0.60±0.05
				30 dB Min. at 1560~1606MHz	
				15 dB Min. at 1710~1990MHz	
				10 dB Min. at 3600MHz	
				35 dB Min. at 4800~5000MHz	
				25 dB Min. at 7200~7500MHz	

SLFB21 TYPE

Part Number	Center Frequency	Pass Band	Max. IL in PB (at 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	MM
Symbol	f ₀	PB	IL	-	T
SLFB21-2R450G-31TF	2450	2400~2500	1.2	15 dB Min. at 1600MHz	0.90±0.10
				25 dB Min. at 3200MHz	
				20 dB Min. at 4800~5000MHz	
SLFB21-2R450G-33TF	2450	2400~2500	1.9	35 dB Min. at 824~960MHz	0.90±0.10
				30 dB Min. at 1545~1605MHz	
				30 dB Min. at 1770~1990MHz	
				30 dB Min. at 2170MHz	
				27 dB Min. at 4800~5000MHz	
SLFB21-3R600G-31TF	3600	3300~3900	1.5	25 dB Min. at 7200~7500MHz	0.90±0.10
				32 dB Min. at 824~960MHz	
				24 dB Min. at 1710~1990MHz	
				21 dB Min. at 1990~2170MHz	

				28.5 dB Min. at 6900~8070MHz	
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SPECIFICATIONS

SLFB21 TYPE

Part Number	Center Frequency	Pass Band	Max. IL in PB (at 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	MM
Symbol	f ₀	PB	IL	-	T
SLFB21-3R600G-41TF	3600	3400~3800	1.3	37.5 dB Min. at 1~2170MHz	0.70±0.10
				27.5 dB Min. at 2170~2400MHz	
				27.5 dB Min. at 2400~2500MHz	
				9.5 dB Min. at 2500~2800MHz	
				4.5 dB Min. at 4400~4800MHz	
				25 dB Min. at 4800~4900MHz	
				25 dB Min. at 4900~5337MHz	
				25 dB Min. at 5337~5430MHz	
				25 dB Min. at 5430~6800MHz	
				34.5 dB Min. at 6800~7600MHz	
				30 dB Min. at 7600~9000MHz	
				25 dB Min. at 9000~11400MHz	
20 dB Min. at 11400~15200MHz					
SLFB21-3R800G-17TF	3800	3300~4200	2	36 dB at 450~2200MHz	0.70±0.10
				38 dB at 2300~2483MHz	
				33 dB at 2496~2690MHz	
				25 dB at 5150~5850MHz	
				25 dB at 6600~8400MHz	
				15 dB at 9900~12600MHz	
SLFB21-4R700G-19TF	4700	4400~5000	1.8	37 dB at 450~2200MHz	0.70±0.10
				37 dB at 2300~2483MHz	
				33 dB at 2496~2690MHz	
				15 dB at 5490~5670MHz	
				18 dB at 5670~5950MHz	
				18 dB at 6200~8000MHz	
				20 dB at 8800~10000MHz	
				15 dB at 13200~15000MHz	

SLFB22 TYPE

Part Number	Center Frequency	Pass Band	Max. IL in PB (at 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	MM
Symbol	f ₀	PB	IL	-	T
SLFB22-3R600G-31TF	3600	3186.4~4186.4	2	35 dB Min. at 500~1711MHz	1.0±0.10
				28 dB Min. 33 dB typ. at 1711.84~2711.84MHz	
				28 dB Min. 33 dB at 4660.96~5660.96MHz	
				38 dB Min. at 5660~7610MHz	
				40 dB Min. 45 dB at 7610~8610MHz	
				20 dB Min. at 8610~11000MHz	
				15 dB Min. at 11000~14000MHz	
SLFB22-4R500G-31TF	4500	3823.68~5023.68	1.2	40 dB Min. at 500~874.56MHz	1.0±0.10
				40 dB Min. at 6772.8~7972.8MHz	
				40 dB Min. at 7972.8~10921.92MHz	

				30 dB Min. at 10921.92~15000MHz	
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SPECIFICATIONS

SLFB22 TYPE

Part Number	Center Frequency	Pass Band	Max. IL in PB (at 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	MM
Symbol	f ₀	PB	IL	-	T
SLFB22-4R950G-31TF	4950	4415~5415	1.8	40 dB Min. at 500~3350MHz	1.0±0.10
				40 dB Min. at 6480~7500MHz	
				36 dB Min. at 6480~9250MHz	
				25 dB Min. at 9250~11200MHz	
				15 dB Min. at 11200~17200MHz	

SLFB32 TYPE

Part Number	Center Frequency	Pass Band	Max. IL in PB (at 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	MM
Symbol	f ₀	PB	IL	-	T
SLFB32-1R920G-31TF	1920	1680~2295	2.5	30 dB Min. @ DC~1400MHz	2.0±0.10
				30 dB Min. @ 2620~2705MHz	
				35 dB Min. @ 2705~2740MHz	
				35 dB Min. @ 2740~3115MHz	
				30 dB Min. @ 3115~3235MHz	
				30 dB Min. @ 3235~6590MHz	
				30 dB Min. @ 6590~7210MHz	
SLFB32-2R525G-11TF	2525	2150~2900	2.5	35 dB @ 259~650MHz	1.50±0.10
				28 dB @ 3208~3599MHz	
				35 dB @ 6157~6548MHz	
SLFB32-3R600G-12TF	3600	3160~4040	1.7dB Max. @3300~3900 MHz	30 dB Min. @ 824~960MHz	1.50±0.10
				24 dB Min. @ 1200~1990MHz	
			2dB Max. @3160~3300 MHz	36 dB Min. @ 2098~2598MHz	
				23 dB Min. @ 4600~5000MHz	
			2 dB Max. @3900~4040 MHz	43 dB Min. @ 5000~5600MHz	
				30 dB Min. @ 6349~6749MHz	
SLFB32-4R900G-31TF	4900	4700~5100	3	28 dB Min. @ 6900~8070MHz	1.50±0.10
				45 dB Min. @ 10~2000MHz	
				30 dB Min. @ 2000~3400MHz	
				30 dB Min. @ 3400~3800MHz	
				24 dB Min. @ 3800~4330MHz	
				25 dB Min. @ 4700~5100MHz	