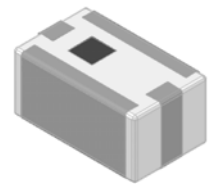


Multilayer Chip LC Filter (Bandpass) – SLFB Series

Operating Temp. : -40°C~+85°C



FEATURES

- Small and low profile enables high density mounting
- Low insertion loss & high attenuation
- Inside shielding
- Excellent solderability
- Centre frequencies and responses are ready for customization

APPLICATIONS

- Mobile communication system, such as PDC, GSM, PCS, etc.
- Bluetooth, Wireless LAN, WIFI, GPS, etc.

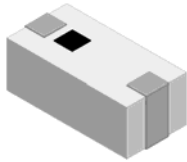
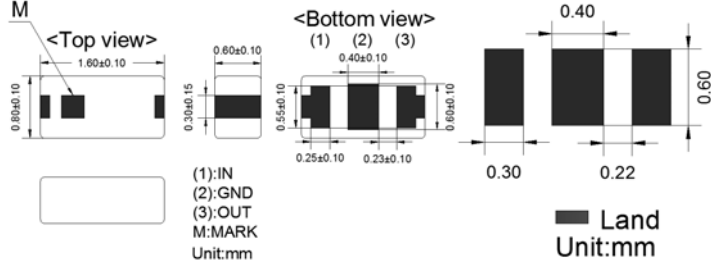
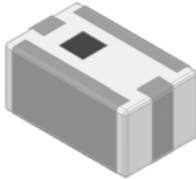
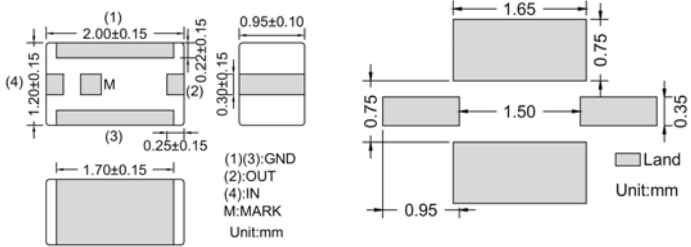

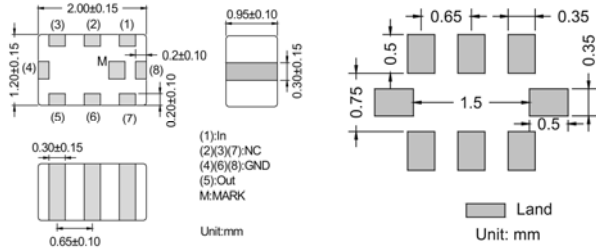
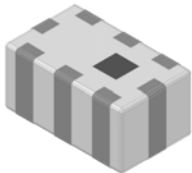
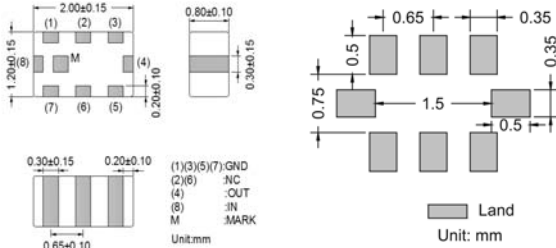
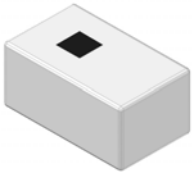
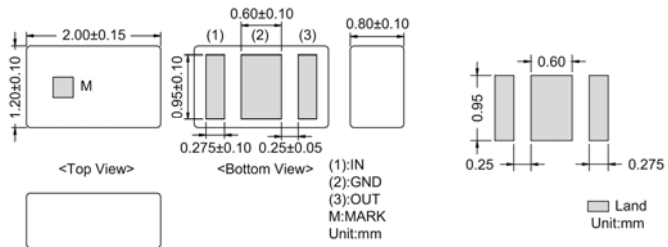
PRODUCT IDENTIFICATION

SLFB ①	18 ②	-2R450G ③	-02 ④	T ⑤	F ⑥																																												
①	②	③	④	⑤	⑥																																												
<table border="1"> <tr><th colspan="2">Type</th></tr> <tr><td>SLFB</td><td>Bandpass LC Filter</td></tr> </table>	Type		SLFB	Bandpass LC Filter	<table border="1"> <tr><th colspan="2">(L×W) (mm)</th></tr> <tr><th colspan="2">External Dimensions (L×W) (mm)</th></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> <tr><td>22 [1008]</td><td>2.5×2.0</td></tr> <tr><td>31 [1206]</td><td>3.2×1.6</td></tr> <tr><td>32 [1210]</td><td>3.2×2.5</td></tr> <tr><td>44 [2016]</td><td>4.8×4.2</td></tr> </table>	(L×W) (mm)		External Dimensions (L×W) (mm)		15 [0402]	1.0×0.5	18 [0603]	1.6×0.8	21 [0805]	2.0×1.2	22 [1008]	2.5×2.0	31 [1206]	3.2×1.6	32 [1210]	3.2×2.5	44 [2016]	4.8×4.2	<table border="1"> <tr><th colspan="2">Center Frequency</th></tr> <tr><th>Example</th><th>Nominal Value</th></tr> <tr><td>1R917G</td><td>1917MHz</td></tr> <tr><td>2R450G</td><td>2450MHz</td></tr> <tr><td>5R550G</td><td>5550MHz</td></tr> </table>	Center Frequency		Example	Nominal Value	1R917G	1917MHz	2R450G	2450MHz	5R550G	5550MHz	<table border="1"> <tr><th colspan="2">Series Code</th></tr> <tr><td>02, A1, etc.</td><td></td></tr> </table>	Series Code		02, A1, etc.		<table border="1"> <tr><th colspan="2">Packing</th></tr> <tr><td>T</td><td>Tape & Reel</td></tr> </table>	Packing		T	Tape & Reel	<table border="1"> <tr><th colspan="2">Hazardous Substance Free Products</th></tr> <tr><td>F</td><td></td></tr> </table>	Hazardous Substance Free Products		F	
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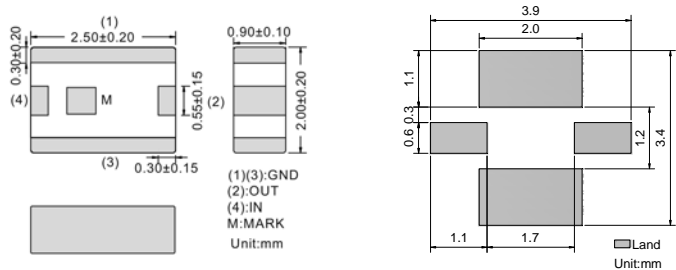
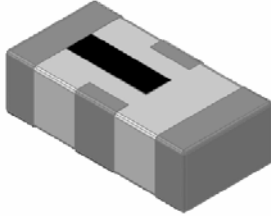
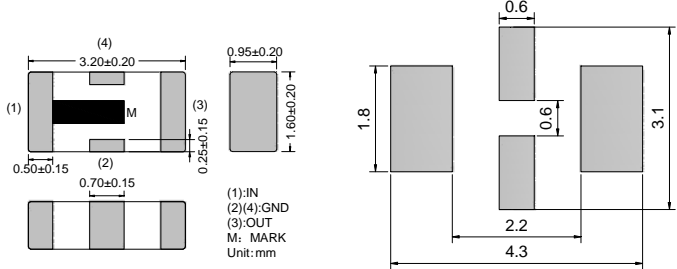
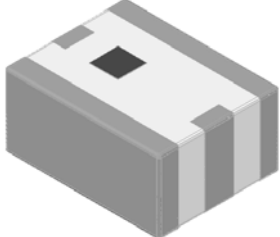
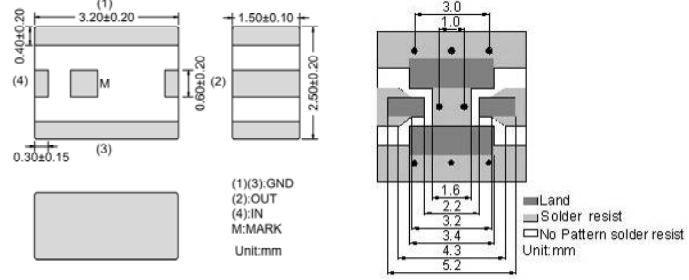
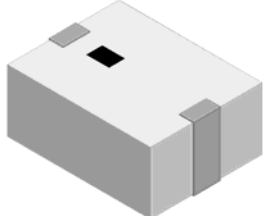
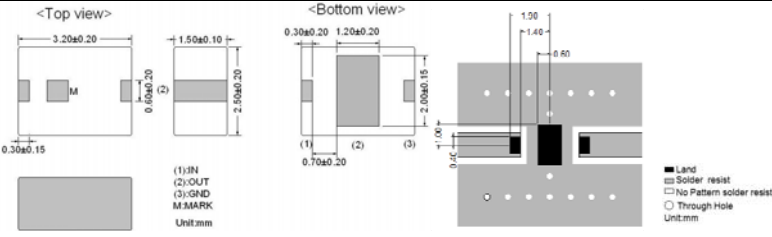
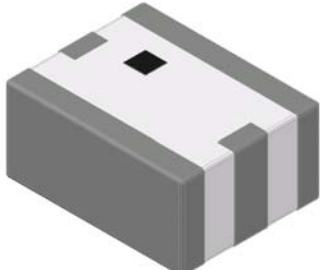
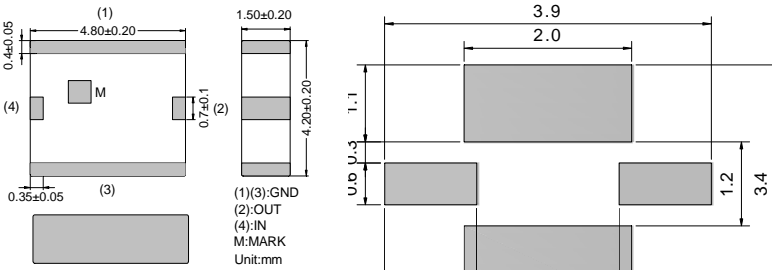
SHAPE AND DIMENSIONS

Type: SLFB15 Series	Dimensions and Land Patterns
Type: SLFB18 Series	Dimensions and Land Patterns

SHAPE AND DIMENSIONS

<p>Type: SLFB18-2R450G-10TF</p> 	<p>Dimensions and Land Patterns</p> 
<p>Type: SLFB21 Series</p> 	<p>Dimensions and Land Patterns</p> 
<p>Type: SLFB21-2R450G-02TF</p> 	<p>Dimensions and Land Patterns</p> 
<p>Type: SLFB21-2R450G-13TF</p> 	<p>Dimensions and Land Patterns</p> 
<p>Type: SLFB21-2R450G-06/09/10TF</p> 	<p>Dimensions and Land Patterns</p> 

SHAPE AND DIMENSIONS

<p>Type: SLFB22 Series</p> 	<p>Dimensions and Land Patterns</p>  <p>(1) 2.50±0.20 (4) 0.30±0.20 (3) 0.30±0.15 0.55±0.15 0.90±0.10 (2) 2.00±0.20 (1)(3):GND (2):OUT (4):IN M:MARK Unit:mm</p> <p>3.9 2.0 1.1 0.6 0.3 1.2 3.4 1.1 1.7 Land Unit:mm</p>
<p>Type: SLFB31 Series</p> 	<p>Dimensions and Land Patterns</p>  <p>(4) 3.20±0.20 (1) 0.50±0.15 (2) 0.70±0.15 (3) 0.25±0.15 0.95±0.20 (2) 1.60±0.20 (1):IN (2)(4):GND (3):OUT M: MARK Unit:mm</p> <p>0.6 1.8 0.6 2.2 4.3 3.1</p>
<p>Type: SLFB32 Series</p> 	<p>Dimensions and Land Patterns</p>  <p>(1) 3.20±0.20 (4) 0.40±0.20 (3) 0.30±0.15 0.60±0.20 (2) 1.50±0.10 2.50±0.20 (1)(3):GND (2):OUT (4):IN M:MARK Unit:mm</p> <p>3.0 1.0 1.6 2.2 3.2 3.4 4.3 5.2 Land Solder resist No Pattern solder resist Unit:mm</p>
<p>Type: SLFB32-1R845G-01TF</p> 	<p>Dimensions and Land Patterns</p>  <p><Top view> (1) 3.20±0.20 (4) 0.30±0.15 (2) 0.60±0.20 (3) 1.50±0.10 2.50±0.20 (1):IN (2):OUT (3):GND M:MARK Unit:mm</p> <p><Bottom view> (1) 0.30±0.20 (2) 1.20±0.20 (3) 0.70±0.20 1.90 1.40 0.60 2.00±0.15 0.6 0.6 Land Solder resist No Pattern solder resist Through Hole Unit:mm</p>
<p>Type: SLFB44 Series</p> 	<p>Dimensions and Land Patterns</p>  <p>(1) 4.80±0.20 (4) 0.4±0.05 (3) 0.35±0.05 0.7±0.1 (2) 1.50±0.20 4.20±0.20 (1)(3):GND (2):OUT (4):IN M:MARK Unit:mm</p> <p>3.9 2.0 1.1 1.2 3.4 U.O U.O U.O</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	2450.0	$f_0 \pm 50.0$	1.4	25dB Min. at 880~960MHz	0.38±0.05
				8dB Min. at 1710~1970MHz	
				23dB Min. at 4800~5000MHz	
				32dB Min. at 7200~7500MHz	

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
SLFB18-2R450G-02TF	2450.0	$f_0 \pm 50.0$	2.2	24dB Min. at 880~960MHz	0.60±0.10
				20dB Min. at 1710~1990MHz	
				15.5dB Min. at 4800~5000MHz	
				19.5dB Min. at 7200~7500MHz	
SLFB18-2R450G-07TF	2450.0	$f_0 \pm 50.0$	1.8	30dB Min. at 800~960MHz	0.60±0.10
				25dB Min. at 1710~1990MHz	
				20dB Min. at 1990MHz	
				30dB Min. at 4800~5000MHz	
SLFB18-2R450G-10TF	2450.0	$f_0 \pm 50.0$	3.0	30dB Min. at 7200~7500MHz	0.60±0.10
				35.0dB Min. at 880~960MHz	
				30.0dB Min. at 1505~1610MHz	
				25.0dB Min. at 1710~1990MHz	
				15.0dB Min. at 2110~2170MHz	
SLFB18-2R450G-10TF	2450.0	$f_0 \pm 50.0$	3.0	25.0dB Min. at 4800~5000MHz	0.60±0.10
				20.0dB Min. at 7200~7500MHz	
				20.0dB Min. at 7200~7500MHz	
SLFB18-5R500G-01TF	5512.5	$f_0 \pm 362.5$	1.5	30dB Min. at 800~3800MHz	0.60±0.10
				15dB Min. at 10000~12000MHz	

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-01TF	2450.0	$f_0 \pm 50.0$	2.6	40dB Min. at 880~960MHz	0.95±0.10
				38dB Min. at 1710~1990MHz	
				16dB Min. at 2110~2170MHz	
				30dB Min. at 4800~5000MHz	
SLFB21-2R450G-02TF	2450.0	$f_0 \pm 50.0$	1.5	35dB Min. at 880~960MHz	0.95±0.10
				20dB Min. at 1710~1990MHz	
				30dB Min. at 4800~5000MHz	
SLFB21-2R450G-03TF	2450.0	$f_0 \pm 50.0$	1.7	30dB Min. at 900MHz	0.95±0.10
				20dB Min. at 1850MHz	
				30dB Min. at 4800MHz	

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
SLFB21-2R450G-05TF	2450.0	$f_0 \pm 50.0$	2.8	20dB Min. at 700~800MHz	0.80±0.10
				25dB Min. at 1710~1880MHz	
				35dB Min. at 3200MHz	
				20dB Min. at 4800~5000MHz	
				20dB Min. at 7200~7500MHz	
				9dB Min. at 1710~1990MHz	
SLFB21-2R450G-06TF	2450.0	$f_0 \pm 50.0$	1.8	30dB Min. at 824~915MHz	0.80±0.10
				28dB Min. at 1545~1605MHz	
				35dB Min. at 1710~1990MHz	
				30dB Min. at 2170MHz	
				30dB Min. at 4800~5000MHz	
				25dB Min. at 7200~7500MHz	
SLFB21-2R450G-09TF	2450.0	$f_0 \pm 50.0$	1.5	30dB Min. at 746~960MHz	0.80±0.10
				30dB Min. at 1540~1605MHz	
				30dB Min. at 1710~1990MHz	
				30dB Min. at 2110~2170MHz	
				15dB Min. at 3300~3800MHz	
				30dB Min. at 4800~5000MHz	
				20dB Min. at 7200~7500MHz	
SLFB21-2R450G-10TF	2450.0	$f_0 \pm 50.0$	2.5	30dB Min. at 746~960MHz	0.80±0.10
				30dB Min. at 1540~1605MHz	
				30dB Min. at 1710~1990MHz	
				30dB Min. at 2110~2170MHz	
				35dB Min. at 4800~5000MHz	
				20dB Min. at 7200~7500MHz	
SLFB21-5R500G-10TF	5410.0	$f_0 \pm 510.0$	1.5	30dB Min. at 3500MHz	0.95±0.10
				25dB Min. at 9800~11840MHz	
				5dB Min. at 14700~17760MHz	
SLFB21-2R450G-13TF	2450.0	$f_0 \pm 50.0$	1.0	21.0dB Min. at 902~928 MHz	0.80±0.10
				26.0dB Min. at 4800~5000 MHz	
				34.0dB Min. at 7200~7500 MHz	
				29.0dB Min. at 9600~10000 MHz	

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
SLFB22-2R450G-A1TF	2450.0	$f_0 \pm 50.0$	1.7	25dB Min. at 1750MHz	0.90±0.10
				6dB Min. at 2100MHz	
				22dB Min. at 4800~5000MHz	
				20dB Min. at 7200~7500MHz	
SLFB22-1R917G-A4TF	1917.0	$f_0 \pm 5.0$	1.9	50dB Min. at 956~961MHz	0.90±0.10
				24dB Min. at 2868~2883MHz	
				29dB Min. at 3824~3844MHz	
				33dB Min. at 4780~4805MHz	
				32dB Min. at 5736~5766MHz	

SPECIFICATIONS

SLFB31 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
SLFB31-1R445-01TF	1445.0	$f_0 \pm 25.0$	3.0	20dB Min. at DC~1140MHz 25dB Min. at 2600~4900MHz	0.95±0.10
SLFB31-1R855-01TF	1855.0	$f_0 \pm 65.0$	3.0	20dB Min. at DC~1400MHz 25dB Min. at 3700~5500MHz	
SLFB31-2R435-01TF	2435.0	$f_0 \pm 95.0$	3.0	20dB Min. at DC~1830MHz 25dB Min. at 4300~5500MHz	
SLFB31-3R085-01TF	3085.0	$f_0 + 315.0$ $/f_0 - 285.0$	2.5	20dB Min. at DC~1750MHz 20dB Min. at 4250~7800MHz	
SLFB31-4R440-01TF	4440.0	$f_0 + 360.0$ / $f_0 - 340.0$	1.0	30dB Min. at 50~2000MHz	
				30dB Min. at 6650~12000MHz	

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
SLFB32-1R800G-01TF	1800.0	$f_0 \pm 500.0$	3.7	28dB Min. at 10~1100MHz 28dB Min. at 2500~6000MHz	1.50±0.10
SLFB32-2R450G-K5TF	2450.0	$f_0 \pm 50.0$	1.8	48dB Min. at 902~928MHz	
				50dB Min. at 1500~1550MHz	
				12dB Min. at 2150~2200MHz 30dB Min. at 4800~5000MHz	
SLFB32-1R845G-01TF	1845.0	$f_0 \pm 140.0$	2.7	30.0dB Min. at 100~1515MHz	1.50±0.10
				25.0dB Min. at 1515~1550MHz	
				9.0dB Min. at 1550~1580MHz	
				3.0dB Min. at 1580~1615MHz	
				3.0dB Min. at 2075~2155MHz	
				12.0dB Min. at 2155~2350MHz	
				27.0dB Min. at 3610~3760MHz 28.0dB Min. at 5415~5640MHz	

SLFB44 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
SLFB44-5R550G-01TF	5550.0	$f_0 \pm 300.0$	4.0	10.0 dB Min. at 5050.0 MHz	1.50±0.10
				10.0 dB Min. at 6050.0 MHz	
				40.0 dB Min. at 4600.0 MHz	
				40.0 dB Min. at 6450.0~7600 MHz	
				40.0 dB Min. at 7600.0 MHz	