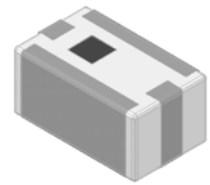


Multilayer Chip LC Filter (Bandpass) – SLFB Series

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.

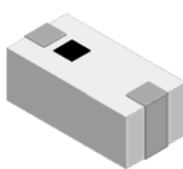
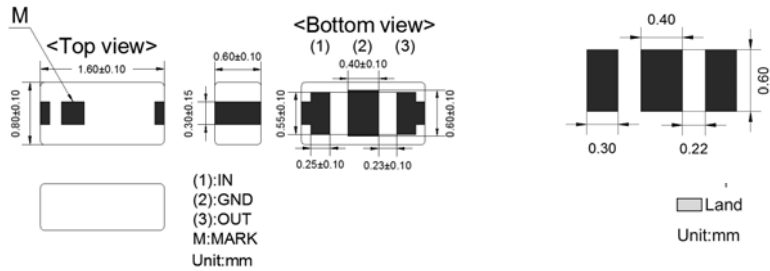
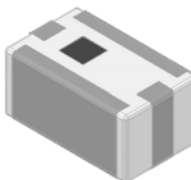
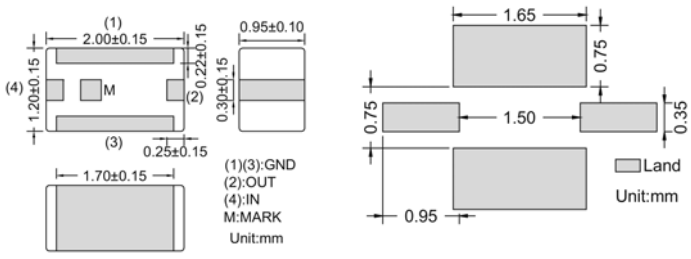
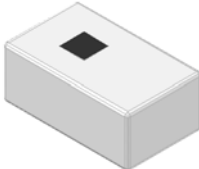
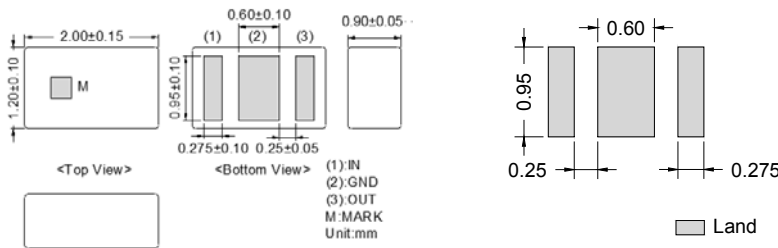

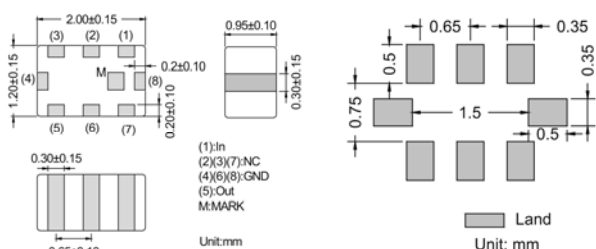

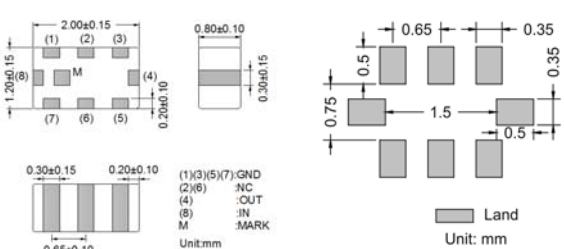
PRODUCT IDENTIFICATION

SLFB ①	18 ②	-2R450G ③	-02 ④	T ⑤	F ⑥																																					
<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 [1916]</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 [1916]	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">Hazardous Substance Free Products</th></tr> <tr><td colspan="2">F</td></tr> </table>	Hazardous Substance Free Products		F	
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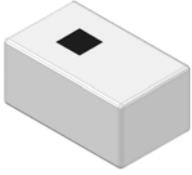
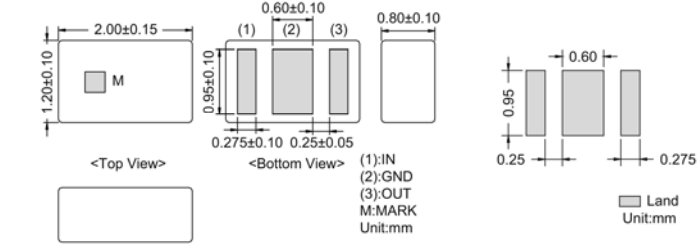
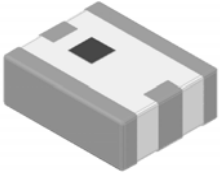
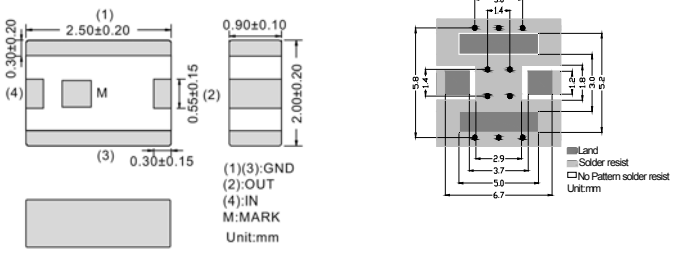
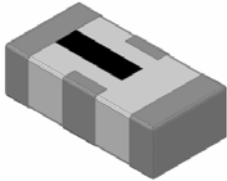
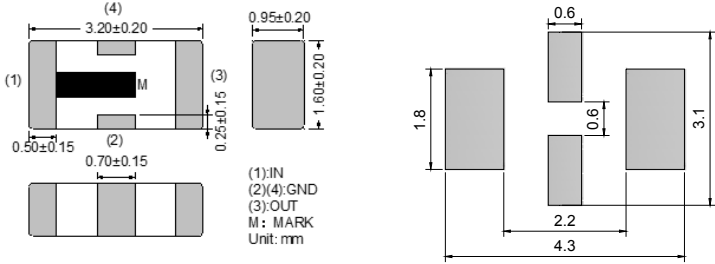
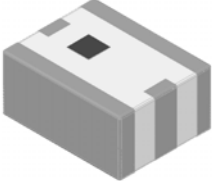
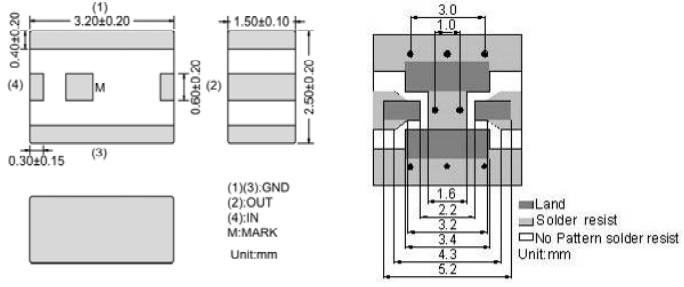
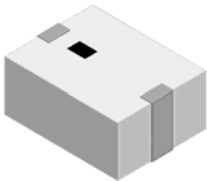
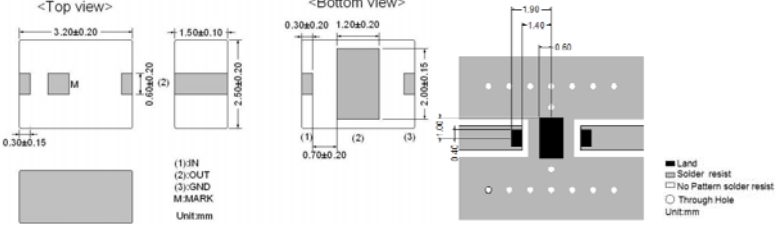
SHAPE AND DIMENSIONS

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

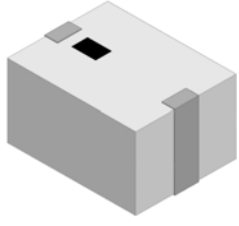
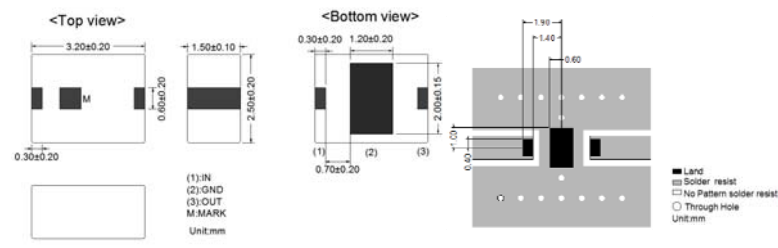
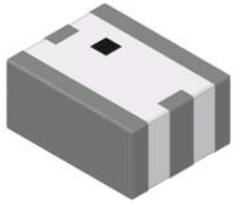
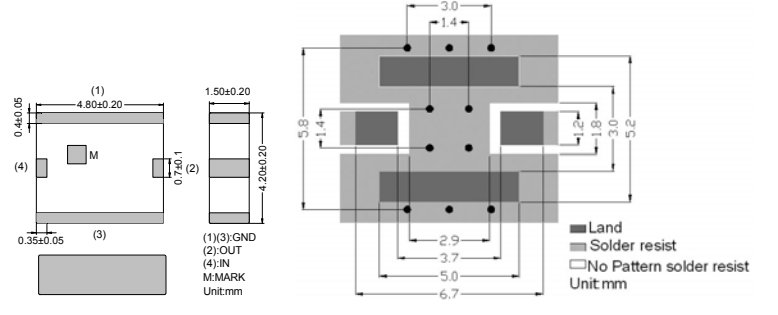
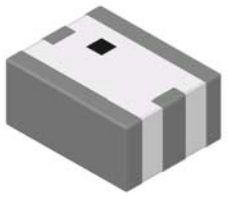
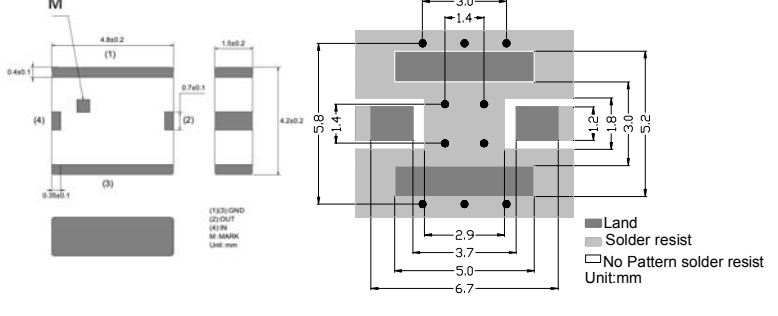
SHAPE AND DIMENSIONS

<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: SLFB21-2R430G-01TF</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> 

SHAPE AND DIMENSIONS

<p>Type: SLFB21-2R450G-06/09/10TF</p> 	<p>Dimensions and Land Patterns</p>  <p><Top View></p> <p><Bottom View></p> <p>(1):IN (2):GND (3):OUT M:MARK Unit:mm</p> <p>Land Unit:mm</p>
<p>Type: SLFB22 Series</p> 	<p>Dimensions and Land Patterns</p>  <p>(1)(3):GND (2):OUT (4):IN M:MARK Unit:mm</p> <p>Land Solder resist No Pattern solder resist Unit:mm</p>
<p>Type: SLFB31 Series</p> 	<p>Dimensions and Land Patterns</p>  <p>(1):IN (2)(4):GND (3):OUT M: MARK Unit: mm</p> <p>Land Solder resist No Pattern solder resist Unit:mm</p>
<p>Type: SLFB32 Series</p> 	<p>Dimensions and Land Patterns</p>  <p>(1)(3):GND (2):OUT (4):IN M:MARK Unit:mm</p> <p>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></p> <p><Bottom view></p> <p>(1):IN (2):OUT (3):GND M:MARK Unit:mm</p> <p>Land Solder resist No Pattern solder resist Through Hole Unit:mm</p>

SHAPE AND DIMENSIONS

Type: SLFB32-2R605G-01TF	Dimensions and Land Patterns
	
Type: SLFB44 Series	Dimensions and Land Patterns
	
Type: SLFB44-3R686G-01TF	Dimensions and Land Patterns
	

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 8.0dB Min. at 1710~1970MHz 23dB Min. at 4800~5000MHz 32dB Min. at 7200~7500MHz	0.38±0.05

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	1910.0	1805~2025	1.7	30dB at 700~950MHz 15dB at 950~1050MHz 30dB at 2400~2500MHz 35dB at 2700~5400MHz 30dB at 5500~12500MHz	0.75

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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
SLFB18-1R910G-01TF	1910.0	1805~2025	1.7	30dB at 700~950MHz	0.75
				15dB at 950~1050MHz	
				30dB at 2400~2500MHz	
				35dB at 2700~5400MHz	
SLFB18-1R950G-01TF	1950.0	1880~2025	1.9	30dB at 5500~12500MHz	0.75
				20dB at 1545~1610MHz	
				25dB at 2400~2500MHz	
SLFB18-2R450G-02TF	2450.0	$f_0 \pm 50.0$	2.2	25dB. at 5150~5850MHz	0.60±0.10
				24dB Min. at 880~960MHz	
				20dB Min. at 1710~1990MHz	
SLFB18-2R450G-07TF	2450.0	$f_0 \pm 50.0$	1.8	15.5dB Min. at 4800~5000MHz	
				19.5dB Min. at 7200~7500MHz	
				30dB Min. at 800~960MHz	
				25dB Min. at 1710~1990MHz	
SLFB18-2R450G-08TF	2450.0	$f_0 \pm 50.0$	1.8	20dB Min. at 1990MHz	
				30dB Min. at 4800~5000MHz	
				30dB Min. at 7200~7500MHz	
SLFB18-2R450G-10TF	2450.0	$f_0 \pm 50.0$	3.0	27dB Min. at 800~900MHz	
				34dB Min. at 4800~5000MHz	
				34dB Min. at 7200~7500MHz	
				35dB Min. at 880~960MHz	
				30dB Min. at 1505~1610MHz	
SLFB18-5R500G-01TF	5512.5	$f_0 \pm 362.5$	1.5	25dB Min. at 1710~1990MHz	
				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
SLFB21-2R430G-01TF	2430.0	$f_0 \pm 60.0$	2.0	32dB Min. at 2150MHz	0.95±0.10
SLFB21-2R450G-01TF	2450.0	$f_0 \pm 50.0$	2.6	40dB Min. at 880~960MHz	
				38dB Min. at 1710~1990MHz	
				16dB Min. at 2110~2170MHz	
SLFB21-2R450G-02TF	2450.0	$f_0 \pm 50.0$	1.5	30dB Min. at 4800~5000MHz	
				35dB Min. at 880~960MHz	
				20dB Min. at 1710~1990MHz	
SLFB21-2R450G-03T	2450.0	$f_0 \pm 50.0$	1.7	30dB Min. at 4800~5000MHz	
				30dB Min. at 900MHz	
				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	0.95±0.10
				25dB Min. at 1710~1880MHz	
				35dB Min. at 3200MHz	
				20dB Min. at 4800~5000MHz	
				20dB Min. at 7200~7500MHz	
SLFB21-2R450G-06TF	2450.0	$f_0 \pm 50.0$	1.8	9dB Min. at 1710~1990MHz	0.80±0.10
				30dB Min. at 824~915MHz	
				28dB Min. at 1545~1605MHz	
				35dB Min. at 1710~1990MHz	
				30dB Min. at 2170MHz	
SLFB21-2R450G-09TF	2450.0	$f_0 \pm 50.0$	1.5	30dB Min. at 4800~5000MHz	0.80±0.10
				25dB Min. at 7200~7500MHz	
				30dB Min. at 746~960MHz	
				30dB Min. at 1540~1605MHz	
				30dB Min. at 1710~1990MHz	
SLFB21-2R450G-10TF	2450.0	$f_0 \pm 50.0$	2.5	30dB Min. at 2110~2170MHz	0.80±0.10
				15dB Min. at 3300~3800MHz	
				30dB Min. at 4800~5000MHz	
				20dB Min. at 7200~7500MHz	
				30dB Min. at 746~960MHz	
SLFB21-2R450G-13TF	2450.0	$f_0 \pm 50.0$	1.0	30dB Min. at 1540~1605MHz	0.80±0.10
				30dB Min. at 1710~1990MHz	
				30dB Min. at 2110~2170MHz	
				35dB Min. at 4800~5000MHz	
SLFB21-2R450G-13TF	2450.0	$f_0 \pm 50.0$	1.0	20dB Min. at 7200~7500MHz	0.80±0.10
				21dB Min. at 902~928 MHz	
				26dB Min. at 4800~5000 MHz	
				34dB Min. at 7200~7500 MHz	
SLFB21-2R450G-13TF	2450.0	$f_0 \pm 50.0$	1.0	29dB Min. at 9600~10000 MHz	0.80±0.10
				30dB Min. at 869~896MHz	
				30dB Min. at 1805~1880MHz	
				30dB Min. at 2300~2690MHz	
SLFB21-3R500G-01TF	3500.0	$f_0 \pm 100.0$	1.8	30dB Min. at 5150~5925MHz	0.95±0.10
				30dB Min. at 824~960MHz	
				24dB Min. at 1200~1990MHz	
				21dB Min. at 1990~2170MHz	
				15dB Min. at 2200~2600MHz	
SLFB21-3R600G-14TF	3600.0	$f_0 \pm 300.0$	1.5	25dB Min. at 4600~5600MHz	0.95±0.10
				28dB Min. at 6900~8070MHz	
				30dB Min. at 3500MHz	
				25dB Min. at 9800~11840MHz	
SLFB21-5R500G-01TF	5410.0	$f_0 \pm 510.0$	1.5	5dB Min. at 14700~17760MHz	0.95±0.10

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
SLFB22-2R450G-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	
				24dB Min. at 2868~2883MHz	
				29dB Min. at 3824~3844MHz	
				33dB Min. at 4780~4805MHz	
				32dB Min. at 5736~5766MHz	

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	0.95±0.10
				25dB Min. at 2600~4900MHz	
SLFB31-1R525G-01TF	1525.0	$f_0 \pm 45.0$	3.0	20dB Min. at DC~1150MHz	
				25dB Min. at 2900~5100MHz	
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	1.50±0.10
				28dB Min. at 2500~6000MHz	
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	
SLFB32-2R650G-01TF	2605.0	$f_0 \pm 150.0$	4.0	25dB Min. @0~314MHz	
				35dB Min. @314~374MHz	
				25dB Min. @374~2250MHz	
				20dB Min. @3143~3260MHz	
				35dB Min. @3263~3323MHz	
				20dB Min. @3323~5524MHz	
				35dB Min. @5524~5584MHz	
20dB Min. @5584~8533MHz					



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SPECIFICATIONS

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
SLFB32-1R845G-01TF	1845.0	$f_0 \pm 140.0$	2.7	30dB Min. at 100~1515MHz	1.50±0.10
				25dB Min. at 1515~1550MHz	
				9.0dB Min. at 1550~1580MHz	
				3.0dB Min. at 1580~1615MHz	
				3.0dB Min. at 2075~2155MHz	
				12dB Min. at 2155~2350MHz	
				27dB Min. at 3610~3760MHz	
				28dB 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	10dB Min. at 5050.0 MHz	1.50±0.10
				10dB Min. at 6050.0 MHz	
				40dB Min. at 4600.0 MHz	
				40dB Min. at 6450.0~7600	
				40dB Min. at 7600.0 MHz	
SLFB44-3R686G-01TF	3686.4	$f_0 \pm 400.0$	3.0	45dB Min. @ ≤1811.0 MHz	1.50±0.20
				45dB Min. @ 1811.84~2611.84 MHz	
				45dB Min. @ 4760.96~5560.96 MHz	
				45dB Min. @ 5560.0~8500.0 MHz	
				30dB Min. @ 8500.0~11000.0 MHz	
				20dB Min. @ 11000.0~14000.0 MHz	