

7

Filters for Communication Equipment

**Antennas/Duplexers
for RF/Local
for IF**

- **Part Numbering** (The structure of the "Global Part Numbers" that will be adopted from June 2001 and the meaning of each code are described herein.)
(If you have any questions about details, inquire at your usual Murata sales office or distributor.)

Antenna/Duplexer Dielectric Filters (GIGAFIL[®]) for RF/Local Dielectric Filters (GIGAFIL[®])

(Global Part Number) **DF** **YK6** **1G95** **LBNBB-** **TT1**
① ② ③ ④ ⑤

① Product ID

Product ID	
DF	Microwave Filters (GIGAFIL [®])

② Series

Two capital letters and a letter express the series name.

③ Nominal Center Frequency

Expressed by four-digit alphanumerics. If the unit is "MHz", it is expressed by three figures plus "M". If the unit is "GHz", a decimal point is expressed by capital letter "G".

④ Individual Specification Code

Expressed by five letters plus a hyphen.

⑤ Packaging

Code	Packaging
T**	Tray
R**	Reel

Packaging varies on each product type. Please contact us for details.

Chip Multilayer LC Filters for RF/Local and IF

(Global Part Number) **LF** **B** **32** **836M** **SA** **1** **-747**
① ② ③ ④ ⑤ ⑥ ⑦

① Product ID

Product ID	
LF	Chip Multilayer LC Filters

② Function

Code	Function
B	Band-pass Filters
L	Low-pass Filters
D	Multi-function Filters
E	Trap

③ Dimensions (L×W)

Code	Dimensions (L×W)
18	1.60×0.80mm
21	2.00×1.25mm
31	3.20×1.60mm
32	3.20×2.50mm
43	4.50×3.20mm
55	5.70×5.00mm

④ Nominal Center Frequency

Expressed by four-digit alphanumerics. If the unit is "MHz", it is expressed by three figures plus "M". If the unit is "GHz", a decimal point is expressed by capital letter "G".

⑤ Series

Code	Series
SA	Two capital letters express the series name.

⑥ Design

Code	Design
1	A figure expresses identification of the series design type.

⑦ Individual Specification Code

Code	Individual Specification Code
-747	Specification, Characteristics, others

SAW Filters for RF/Local and IF

(Global Part Number)

SA	F	CC	942M	VM0	T	00	R05
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1 2 3 4 5 6 7 8

1 Product ID

Product ID	
SA	SAW

2 Function

Code	Function
F	Single Filter
W	Dual Filter

3 Structure/Size

Code	Structure/Size
CC	Package Type

4 Nominal Center Frequency

Expressed by four-digit alphanumerics. The unit is hertz (Hz). If the unit is "MHz", it is expressed by three figures plus "M". If the unit is "GHz", a decimal point is expressed by capital letter "G".

5 Character Design

Code	Character Design
VM0	A serial number expresses the design version.

6 Board

Code	Board
T	Expresses the substrate being used.

7 Individual Specification

Code	Individual Specification
00	—

8 Packaging

Code	Packaging
R00	10000 pcs./ø330mm Reel
R05	5000 pcs./ø330mm Reel
R11	1000 pcs./ø180mm Reel

Ceramic Filters (CERAFIL[®]) for IF

(Global Part Number)

CF	X	CC	450K	CFA	001	-R0
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CF	P	CA	455K	D4A		-R0
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CF	E	CS	10M8	PF00	00	-R0
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1 2 3 4 5 6 7

1 Product ID

2 Oscillating/Element

Product ID	Oscillating/Element
CF	U 4 Elements Area Vibration
	W 6 Elements Area Vibration
	Z 8 Elements Area Vibration
	X 4 Elements Longitudinal Vibration
SF	D 6 Elements Longitudinal Vibration
	P 4 Elements Area Vibration
	E 2 Elements Thickness Longitudinal Vibration
	S 2 Elements Thickness Shear Vibration
	J 4 Elements Thickness Shear Vibration

3 Structure/Size

Code	Structure/Size
C□	Chip Type
L□	Lead Type

□ is "A" or subsequent code, which indicates the size. It varies depending on vibration mode and number of elements.

4 Nominal Center Frequency

Expressed by four-digit alphanumerics. The unit is hertz (Hz). If the unit is "kHz", it is expressed by three figures plus "K". If the unit is "MHz", a decimal point is expressed by the capital letter "M".

5 Product Specification

Code	Product Specification
CFA	Three letters express pass band width, center frequency tolerance and design type.

6 Individual Specification

Code	Individual Specification Code
001	Expressed by three-digit alphanumerics.

7 Packaging

Code	Packaging
-B0	Bulk
-R0	Plastic Taping ø=180mm
-R1	Plastic Taping ø=330mm
-M0	Magazine

Magazine cassette is applied to lead type and plastic taping to chip type.

BGS Filter for IF

(Global Part Number) **MK** **F** **KB** **51M7** **JA0** **P** **00** **R11**

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Product ID

Product ID	
MK	BGS

② Function

Code	Function
F	Filter

③ Structure/Size

Code	Structure/Size
KB	Chip Type

④ Nominal Center Frequency

Expressed by four-digit alphanumerics. The unit is hertz (Hz). If the unit is "MHz", it is expressed by three figures plus "M".

⑤ Product Specification

Code	Product Specification
JA0	Expressed by three figures.

⑥ Piezoelectric Board Material

Code	Piezoelectric Board Material
P	Expressed by a letter.

⑦ Individual Specification Code

Code	Individual Specification Code
00	Standard

⑧ Packaging

Code	Packaging
R11	Plastic Taping ø=180mm

Ceramic Discriminators for IF

(Global Part Number) **CD** **B** **LB** **450K** **C** **A** **X** **16** **-B0**

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① Product ID

Product ID	
CD	Ceramic Discriminators

② Oscillating

Code	Oscillating
B	Area Vibration

③ Structure/Size

Code	Structure/Size
C□	Chip Type
L□	Lead Type

□ is "A" or subsequent code, which indicates the size. It varies depending on vibration mode and number of elements.

④ Nominal Center Frequency

Expressed by four-digit alphanumerics. The unit is in hertz (Hz). Capital letter "K" following three figures expresses the unit of "kHz".

⑤ Detection

Code	Detection
C	Quadrature Detection

⑥ Application

Code	Application
A	Standard
L	Application with coil

⑦ Element Type

Code	Element Type
X	Low-capacitance
Y	High-capacitance

⑧ IC

Code	IC
16	Applicable IC Control code

⑨ Packaging

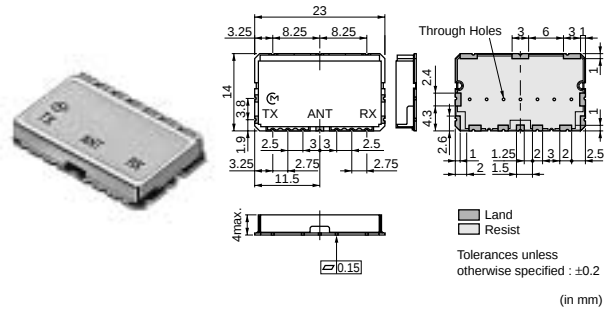
Code	Packaging
-B0	Bulk
-R0	Plastic Taping ø=180mm
-R1	Plastic Taping ø=330mm
-M0	Magazine

Magazine cassette is applied to lead type and plastic taping to chip type. With non-standard products, one letter indicating "Individual Specification" is added between "⑧ Applicable IC" and "⑨ Package Specification code".

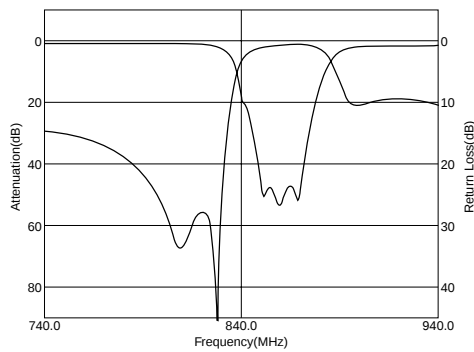
Antennas/Duplexers

Dielectric Duplexers

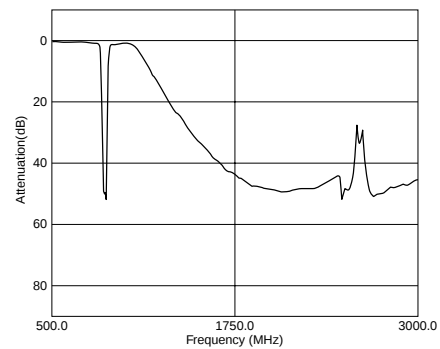
● 800/900MHz



Pass Band(Tx)



Spurious(Tx)



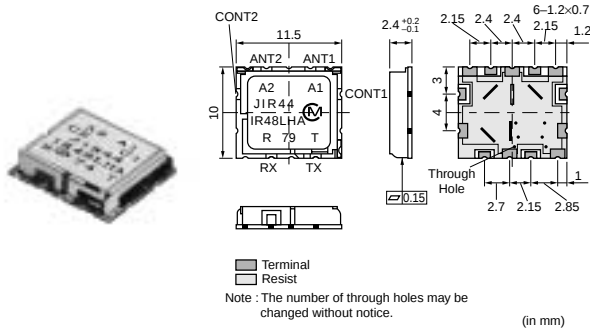
Part Number	Ft (MHz)	Bandwidth (Tx) (MHz)	Operation Temperature Range(°C)	IL at BW (dB)	Attenuation (dB min.)	Fr (MHz)	Bandwidth (Rx) (MHz)	Operation Temperature Range(°C)	IL at BW (dB)	Attenuation (dB min.)
DFYH7815MHDJAA	815.0 (Ft)	20.0	-30~+85	2.0 max.	40 (850~870MHz)	860.0 (Fr)	20.0	-30~+85	4.0 max.	57 (805~825MHz)
DFYG7836MLEJAA	836.5 (Ft)	25.0	-30~+85	2.6 max.	42 (869~894MHz)	881.5 (Fr)	25.0	-30~+85	4.1 max.	50 (824~849MHz)
DFYG7836MLEJAB	836.5 (Ft)	25.0	-30~+85	2.6 max.	42 (869~894MHz)	881.5 (Fr)	25.0	-30~+85	4.5 max.	56 (824~849MHz)
DFYH7836MHCJAA	836.5 (Ft)	25.0	-30~+85	2.4 max.	36 (869~894MHz)	881.5 (Fr)	25.0	-30~+85	4.3 max.	50 (824~849MHz)
DFYH7836MHDJAA	836.5 (Ft)	25.0	+30~+85	2.6 max.	43 (869~894MHz)	881.5 (Fr)	25.0	+30~+85	3.3 max.	50 (824~849MHz)
DFYH7836MHDJAB	836.5 (Ft)	25.0	+30~+85	2.6 max.	43 (869~894MHz)	881.5 (Fr)	25.0	+30~+85	4.0	56 (824~849MHz)
DFYH7836MHDJAC	881.5 (Ft)	25.0	-30~+85	3.0 max.	35 (824~849MHz)	836.5 (Fr)	25.0	-30~+85	4.0 max.	45 (869~894MHz)
DFYH9888MHDJAA	888.5 (Ft)	33.0	-30~+85	3.4 max.	36 (917~950MHz)	933.5 (Fr)	33.0	-30~+85	5.1 max.	49 (872~905MHz)
DFYH9888MHDJBA	888.5 (Ft)	33.0	-30~+85	3.5 max.	37 (917MHz)	933.5 (Fr)	33.0	-30~+85	4.6 max.	44 (872~905MHz)
DFYH5897MHDJAA	897.5 (Ft)	35.0	-30~+85	2.0 max.	8 (925~935MHz)	942.5 (Fr)	35.0	-30~+85	4.3 max.	25 (0.3~880MHz)
DFYG5902MLEJAA	902.5 (Ft)	25.0	-30~+85	1.3 max.	14 (935~960MHz)	947.5 (Fr)	25.0	-30~+85	3.5 max.	29 (890~915MHz)
DFYG5902MLEJAB	902.5 (Ft)	25.0	-20~+75	1.8 max.	8 (925~935MHz)	947.5 (Fr)	25.0	-20~+75	3.2 max.	35 (0.3~800MHz)
DFYG6902MLEJAA	902.5 (Ft)	25.0	-20~+75	2.2 max.	10 (925~935MHz)	947.5 (Fr)	25.0	-20~+75	3.2 max.	30 (0.3~890MHz)

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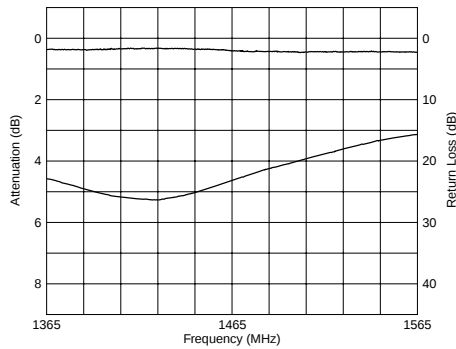
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Part Number	Ft (MHz)	Bandwidth (Tx) (MHz)	Operation Temperature Range(°C)	IL at BW (dB)	Attenuation (dB min.)	Fr (MHz)	Bandwidth (Rx) (MHz)	Operation Temperature Range(°C)	IL at BW (dB)	Attenuation (dB min.)
DFYH6902MHDJAA	902.5 (Ft)	25.0	-30~+85	1.8 max.	30 (935~960MHz)	947.5 (Fr)	25.0	-30~+85	3.2 max.	30 (0.1~890MHz)
DFYH7856MHDJAA	911.5 (Ft)	27.0	-30~+85	2.1 max.	49 (843~870MHz)	856.5 (Fr)	27.0	-30~+85	3.8 max.	52 (898~925MHz)
DFYJ2847MMBJAA	942.5 (Ft)	35.0	-30~+85	0.8 max.	30 (1850~1920MHz)	847.5 (Fr)	75.0	-30~+85	2.2 max.	32 (550~570MHz)

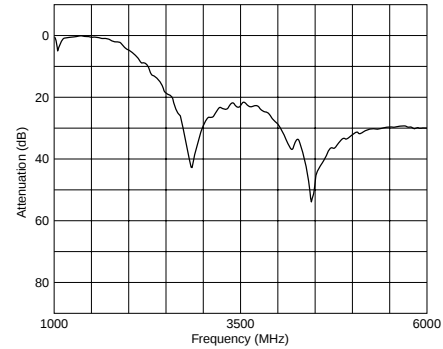
1.5GHz-2.5GHz



Pass Band(Tx)



Spurious(Tx)



Part Number	Ft (MHz)	Bandwidth (Tx) (MHz)	Operation Temperature Range(°C)	IL at BW (dB)	Attenuation (dB min.)	Fr (MHz)	Bandwidth (Rx) (MHz)	Operation Temperature Range(°C)	IL at BW (dB)	Attenuation (dB min.)
DFYJ21G44MBJAA	1441.0 (Ft)	24.0	-30~+85	0.8 max.	28 (2858~2906MHz)	1489.0 (Fr)	24.0	-30~+85	2.4 max.	10 (1607~1631MHz)
DFYFB1G54THHAA	1643.5 (Ft)	34.0	0~+35	1.0 max.	60 (1525~1559MHz)	1542.0 (Fr)	34.0	0~+35	1.0 max.	65 (1626.5~1660.5MHz)
DFYH61G74HDHAA	1747.5 (Ft)	75.0	-30~+85	2.3 max.	20 (1805~1880MHz)	1842.5 (Fr)	75.0	-30~+85	2.7 max.	20 (1710~1785MHz)
DFYH61G74HDHAB	1747.5 (Ft)	75.0	-30~+85	2.0 max.	15 (1805~1880MHz)	1842.5 (Fr)	75.0	-30~+85	3.0 max.	20 (1710~1785MHz)
DFYK61G76LBNA	1765.0 (Ft)	30.0	-35~+85	2.3 max.	40 (1840~1870MHz)	1855.0 (Fr)	30.0	-35~+85	3.3 max.	53 (1750~1780MHz)
DFYH61G88HDHAA	1880.0 (Ft)	60.0	-30~+85	2.0 max.	17 (1930~1990MHz)	1960.0 (Fr)	60.0	-30~+85	3.0 max.	20 (1850~1910MHz)
DFYH61G88HDHAB	1880.0 (Ft)	60.0	-30~+85	2.3 max.	20 (1930~1990MHz)	1960.0 (Fr)	60.0	-30~+85	3.2 max.	30 (0.3~1800MHz)
DFYK91G88LEHAB	1880.0 (Ft)	60.0	-35~+85	3.4 max.	40 (1930~1990MHz)	1960.0 (Fr)	60.0	-35~+85	4.1 max.	50 (1850~1910MHz) 0~+35°C
DFYK91G88LEHAC	1880.0 (Ft)	60.0	-35~+85	3.4 max.	12 (0.3~1780MHz)	1960.0 (Fr)	60.0	-35~+85	4.6 max.	44 (1510~1780MHz)

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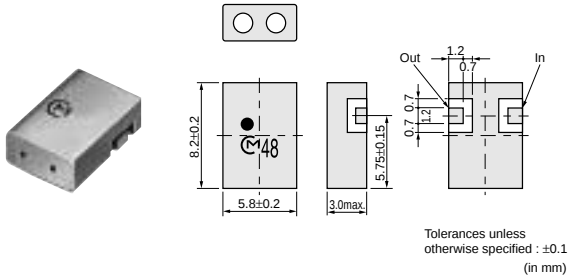
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Part Number	Ft (MHz)	Bandwidth (Tx) (MHz)	Operation Temperature Range(°C)	IL at BW (dB)	Attenuation (dB min.)	Fr (MHz)	Bandwidth (Rx) (MHz)	Operation Temperature Range(°C)	IL at BW (dB)	Attenuation (dB min.)
DFYK61G95LBNA	1950.0 (Ft)	60.0	-35~+85	1.65 max.	45 (2110~2170MHz)	2140.0 (Fr)	60.0	-35~+85	2.0 max.	50 (1920~1980MHz)
DFYK61G95LBNA	1950.0 (Ft)	60.0	-35~+85	1.5 max.	14 (0.3~1770MHz)	2140.0 (Fr)	60.0	-35~+85	2.4 max.	49 (1920~1980MHz)

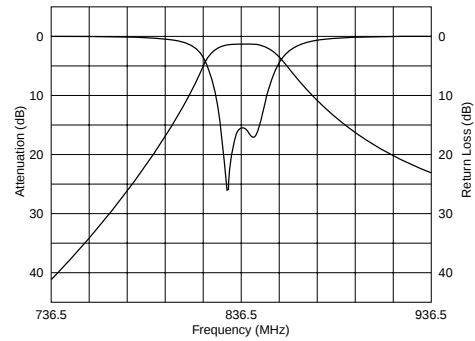
for RF/Local

Dielectric Filters(GIGAFIL®)

● DFCB Series 800/900MHz



Pass Band



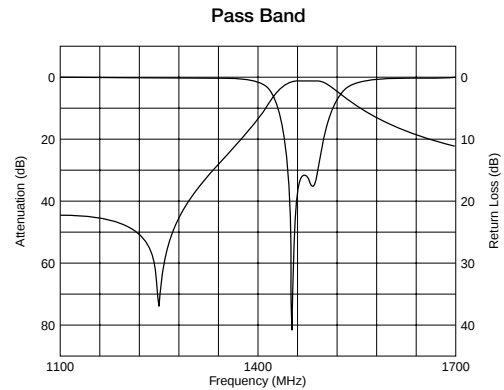
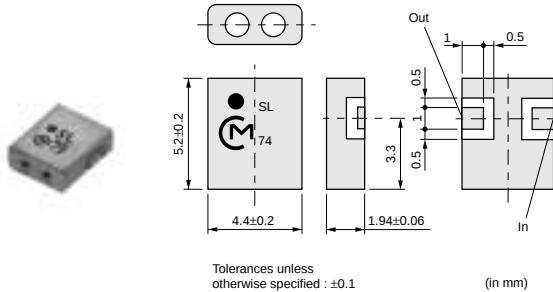
Part Number	Fo (MHz)	Bandwidth (MHz)	Operation Temperature Range (°C)	IL at BW (dB)	Attenuation (dB min.)
DFCB3815MLDJAA	815.5	19	-30~+85	2.5 max.	12 (Fo±35.5MHz)
DFCB2836MLDJAA	836.5	25	-30~+85	2.6 max.	6.5 (869~894MHz)
DFCB3836MLDJAA	836.5	25	-30~+85	3.0 max.	12 (869~894MHz)
DFCB2841MLEJAA	841.0	4	-30~+85	3.0 max.	38 (Fo-150MHz)
DFCB3841MLEJAA	841.0	4	-30~+85	5.3 max.	60 (Fo-150MHz)
DFCB3860MLDJAA	860.5	19	-30~+85	2.5 max.	13 (Fo+35.5MHz)
DFCB2866MLEJAA	866.0	4	-30~+85	3.0 max.	38 (Fo-150MHz)
DFCB3866MLEJAA	866.0	4	-30~+85	5.3 max.	60 (Fo-150MHz)
DFCB2881MLDJAA	881.5	25	-30~+85	2.6 max.	9 (824~849MHz)
DFCB3881MLDJAA	881.5	25	-30~+85	3.0 max.	15 (824~849MHz)
DFCB2886MLEJAA	886.0	2	-30~+85	3.0 max.	24 (Fo-44MHz)
DFCB3886MLEJAA	886.0	2	-30~+85	5.3 max.	45 (Fo-44MHz)
DFCB2902MLDJAA	902.5	25	-30~+85	2.6 max.	27 (Fo-77.5MHz)
DFCB3902MLDJAA	902.5	25	-30~+85	3.0 max.	45 (Fo-77.5MHz)
DFCB2903MLEJAA	903	2	-30~+85	3.0 max.	20 (Fo+22MHz)
DFCB3903MLEJAA	903.0	2	-30~+85	5.3 max.	29 (Fo-22MHz)
DFCB2912MLDJAA	912.0	4	-30~+85	2.0 max.	50 (Fo-150MHz)
DFCB2912MLEJAA	912.0	4	-30~+85	3.0 max.	38 (Fo-150MHz)
DFCB3912MLEJAA	912.0	4	-30~+85	5.3 max.	60 (Fo-150MHz)
DFCB2914MLEJAA	914.5	1	-30~+85	3.0 max.	24 (Fo-44MHz)
DFCB3914MLEJAA	914.5	1	-30~+85	5.3 max.	45 (Fo-44MHz)
DFCB2915MLDJAA	915.0	26	-35~+85	2.5 max.	27 (837.5MHz)
DFCB3915MLDJAA	915.0	26	-30~+85	3.0 max.	15 (Fo-32.5MHz)
DFCB2926MLEJAA	926.25	2.7	-30~+85	2.8 max.	21 (902.4~905.1MHz)
DFCB2927MLEJAA	927.0	2	-30~+85	3.0 max.	15 (Fo-22MHz)
DFCB3927MLEJAA	927.0	2	-30~+85	5.3 max.	29 (Fo-22MHz)
DFCB2931MLEJAA	931.0	2	-30~+85	3.0 max.	24 (Fo-44MHz)
DFCB3931MLEJAA	931.0	2	-30~+85	5.3 max.	45 (Fo-44MHz)
DFCB2947MLDJAA	947.5	25	-30~+85	2.6 max.	27 (Fo-77.5MHz)
DFCB3947MLDJAA	947.5	25	-30~+85	3.0 max.	45 (Fo-77.5MHz)

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Part Number	Fo (MHz)	Bandwidth (MHz)	Operation Temperature Range (°C)	IL at BW (dB)	Attenuation (dB min.)
DFCB2959MLEJAA	959.5	1	-30~+85	3.0 max.	30 (Fo+44MHz)
DFCB3959MLEJAA	959.5	1	-30~+85	5.3 max.	45 (Fo-44MHz)

● DFCB Series 1.5-2.5GHz



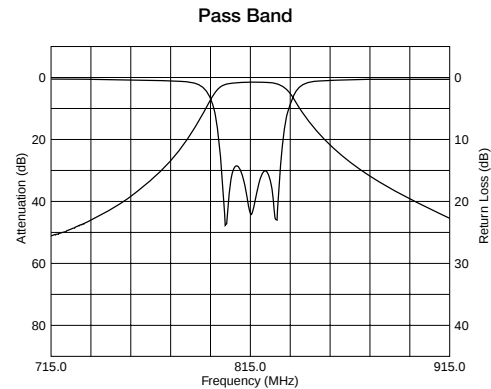
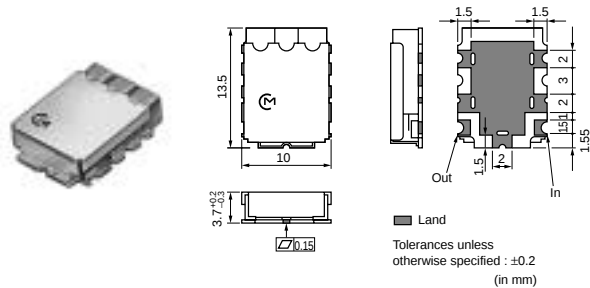
Part Number	Fo (MHz)	Bandwidth (MHz)	Operation Temperature Range (°C)	IL at BW (dB)	Attenuation (dB min.)
DFCB21G47LBJAA	1472	40	-30~+85	2.0 max.	38 (1122MHz)
DFCB31G47LBJAA	1472.0	40	-35~+85	3.0 max.	45 (1100MHz)
DFCB21G48LBJAA	1489.0	24	-30~+85	1.4 max.	10 (1607~1631MHz)
DFCB21G57LCJAA	1575.42	2	-30~+85	3.5 max.	15 (Fo±50MHz)
DFCB21G57LDJAB	1575.42	2	-30~+85	3.15 max.	10 (Fo±30MHz)
DFCB31G74LBJAA	1747.5	75	-30~+85	3.5 max.	45 (1464~1539MHz)
DFCB21G84LDJAA	1842.5	75	-35~+85	2.0 max.	20 (F0-160MHz)
DFCB31G84LBJAA	1842.5	75	-30~+85	3.5 max.	45 (1559~1634MHz)
DFCB31G84LBJAB	1842.5	75	-30~+85	2.75 max.	45 (0.3~1388MHz)
DFCB21G88LDJAA	1880	60	-30~+85	1.5 max.	4 (1780MHz)
DFCB31G88LBJAA	1880.0	60	-30~+85	3.7 max.	43 (1640~1664MHz)
DFCB31G88LBJAB	1880.0	60	-30~+85	4.0 max.	41 (2043~2103MHz)
DFCB21G89LBJAA	1890.0	20	-30~+85	2.0 max.	40 (1660~1680MHz)
DFCB21G89LBJAB	1890.0	20	-30~+85	1.7 max.	35 (1660~1680MHz)
DFCB21G89LDHAA	1890.0	20	-10~+55	0.9 max.	27 (1655~1679MHz)
DFCB21G89LDJAA	1890.0	20	-30~+85	2.0 max.	45 (1660~1680MHz)
DFCB21G90LBJAA	1907.5	25	-15~+55	1.0 max.	20 (1655~1680MHz)
DFCB21G90LBJAB	1907.5	25	-15~+55	1.6 max.	35 (1655~1680MHz)
DFCB21G90LBJAC	1907.5	25	-15~+55	1.9 max.	45 (1655~1680MHz)
DFCB21G91LBJAA	1910	20	-30~+85	1.7 max.	34 (1675~1700MHz)
DFCB21G91LDJAA	1910	20	-30~+85	1.8 max.	40 (1675~1700MHz)
DFCB21G92LBJAA	1920.0	20	-30~+85	1.2 max.	30 (1400~1450MHz)
DFCB21G92LDJAA	1920.0	20	-30~+85	1.9 max.	37 (1690~1710MHz)
DFCB31G95LBJAA	1950.0	60	-30~+85	3.5 max.	35 (2110~2170MHz)
DFCB21G96LDJAA	1960	60	-30~+85	1.5 max.	4 (1860MHz)
DFCB31G96LBJAA	1960.0	60	-30~+85	3.7 max.	43 (1684~1744MHz)
DFCB31G96LBJAB	1960.0	60	-30~+85	3.0 max.	45 (0.3~1498MHz)
DFCB31G96LBJAC	1960.0	60	-30~+85	2.8 max.	45 (1498MHz)
DFCB31G96LBJAE	1960.0	60	-35~+85	3.7 max.	9 (2027MHz~2030MHz)
DFCB22G14LBJAA	2140.0	60	-30~+85	2.7 max.	26 (1920~1980MHz)
DFCB32G14LBJAA	2140.0	60	-30~+85	3.7 max.	30 (0.3~1920MHz)
DFCB22G44LBJAA	2442.0	84	-30~+85	2.0 max.	16 (Fo-250MHz)
DFCB32G44LBJAA	2442.0	84	-30~+85	3.2 max.	30 (Fo-250MHz)
DFCB22G45LBJAA	2450.0	100	-30~+85	2.0 max.	15 (Fo-250MHz)
DFCB32G45LBJAA	2450.0	100	-30~+85	3.2 max.	30 (Fo-250MHz)
DFCB22G48LBJAA	2484.0	26	-30~+85	2.0 max.	13 (2360MHz)

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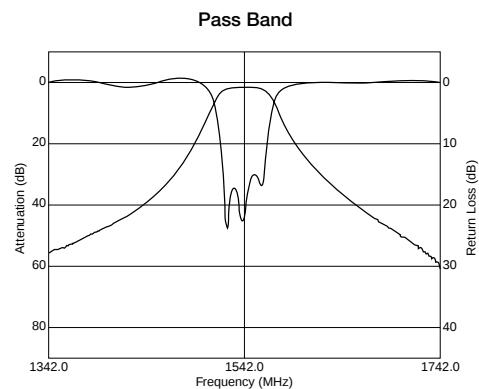
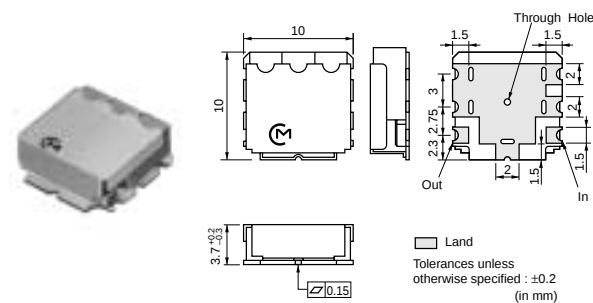
Part Number	Fo (MHz)	Bandwidth (MHz)	Operation Temperature Range (°C)	IL at BW (dB)	Attenuation (dB min.)
DFCB22G50LBJAA	2500	4	-30~+85	4.5 max.	30 (2410MHz)
DFCB25G25LBHAA	5250.0	200	-30~+85	2.0 max.	15 (F0-375MHz)
DFCB35G25LBHAB	5250.0	200	-35~+85	3.0 max.	7 (F0-175MHz)
DFCB25G80LBHAA	5800.0	100	-30~+85	2.0 max.	25 (F0-375MHz)
DFCB25G80LBHAB	5800.0	150	-30~+85	2.0 max.	15 (F0-375MHz)
DFCB35G80LBHAA	5800.0	150	-35~+85	3.4 max.	10 (F0-175MHz)

● DFCH Series 800/900MHz



Part Number	Fo (MHz)	Bandwidth (MHz)	Operation Temperature Range (°C)	IL at BW (dB)	Attenuation (dB min.)
DFCH3815MHDJAA	815.0	20	-30~+85	2.8 max.	36 (Fo±80MHz)
DFCH3836MHDJAA	836.5	25	-30~+85	2.6 max.	12 (Fo±32.5MHz)
DFCH3860MHDJAA	860.0	20	-30~+85	2.8 max.	36 (Fo±80MHz)
DFCH3881MHDJAA	881.5	25	-30~+85	2.6 max.	12 (Fo±32.5MHz)
DFCH3888MHDJAA	888.5	33	-30~+85	3.0 max.	7 (Fo±28.5MHz)
DFCH4888MHDJAA	888.5	33	-30~+85	4.6 max.	15 (Fo±28.5MHz)
DFCH3897MHDJAA	897.5	35	-30~+85	3.0 max.	6 (Fo±27.5MHz)
DFCH4897MHDJAA	897.5	35	-30~+85	4.6 max.	13 (Fo±27.5MHz)
DFCH3902MHDJAA	902.5	25	-30~+85	2.6 max.	12 (Fo±32.5MHz)
DFCH3933MHDJAA	933.5	33	-30~+85	3.0 max.	7 (Fo±28.5MHz)
DFCH4933MHDJAA	933.5	33	-30~+85	4.6 max.	15 (Fo±28.5MHz)
DFCH3942MHDJAA	942.5	35	-30~+85	3.0 max.	6 (Fo±27.5MHz)
DFCH4942MHDJAA	942.5	35	-30~+85	4.6 max.	13 (Fo±27.5MHz)
DFCH3947MHDJAA	947.5	25	-30~+85	2.6 max.	12 (Fo±32.5MHz)

● DFCH Series 1.5-2.5GHz

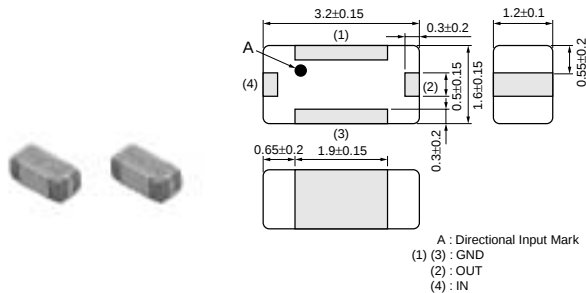


Part Number	Fo (MHz)	Bandwidth (MHz)	Operation Temperature Range (°C)	IL at BW (dB)	Attenuation (dB min.)
DFCH31G54HDJAA	1542.0	34	-30~+85	3.0 max.	30 (1626.5~1660.5MHz)
DFCH21G57HDHAA	1575.5	2	-30~+85	0.9 max.	16 (Fo-140MHz)
DFCH31G64HDJAA	1643.5	34	-30~+85	3.0 max.	30 (1525~1559MHz)
DFCH31G74HDJAA	1747.5	75	-30~+85	2.0 max.	8 (Fo±80MHz)
DFCH41G74HDJAA	1747.5	75	-30~+85	3.6 max.	10 (Fo±57.5MHz)
DFCH31G84HDJAA	1842.5	75	-30~+85	2.0 max.	8 (Fo±80MHz)
DFCH41G84HDJAA	1842.5	75	-30~+85	3.6 max.	10 (Fo±57.5MHz)
DFCH31G88HDJAA	1880.0	60	-30~+85	2.2 max.	15 (Fo±100MHz)
DFCH41G88HDJAA	1880	60	-30~+85	4.5 max.	12 (Fo±50MHz)
DFCH21G90HDJAA	1907.5	25	-30~+85	0.7 max.	35 (Fo-227.5MHz)
DFCH31G96HDJAA	1960.0	60	-30~+85	2.2 max.	15 (Fo±100MHz)
DFCH41G96HDJAA	1960	60	-30~+85	4.5 max.	12 (Fo±50MHz)
DFCH32G15HDHAA	2156.0	20	-30~+85	3.0 max.	36 (2050MHz)
DFCH22G44HDHAA	2442.0	84	-30~+85	1.2 max.	15 (Fo±250MHz)
DFCH32G44HDHAA	2442.0	84	-30~+85	2.4 max.	6 (Fo±80MHz)
DFCH22G45HDHAA	2450.0	100	-30~+85	1.0 max.	16 (Fo-250MHz)
DFCH32G45HDHAA	2450.0	100	-30~+85	2.3 max.	36 (Fo-250MHz)
DFCH22G48HDHAA	2484.0	26	-30~+85	2.5 max.	20 (Fo-90MHz)
DFCH32G48HDHAA	2484.0	26	-30~+85	3.0 max.	32 (Fo-90MHz)
DFCH22G50HDHAA	2500.0	4	-30~+85	2.4 max.	10 (Fo±60MHz)
DFCH42G59HDHAA	2593.0	186	-30~+85	1.8 max.	50 (Fo-400MHz)

for RF/Local

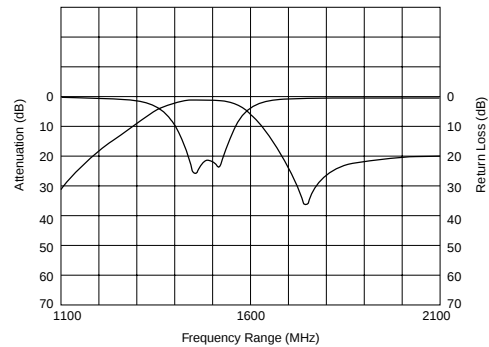
Chip Multilayer LC Filters (BPF)

● LFB31_SG Series



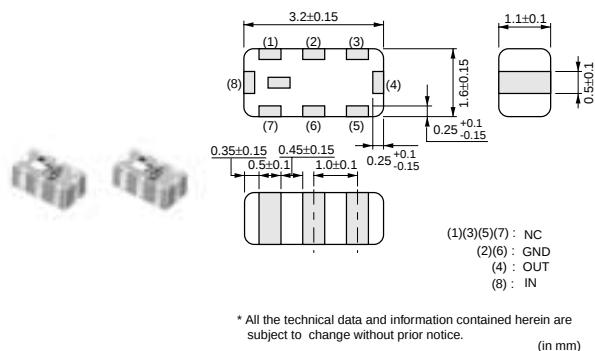
* All the technical data and information contained herein are subject to change without prior notice.
(in mm)

Frequency Characteristics

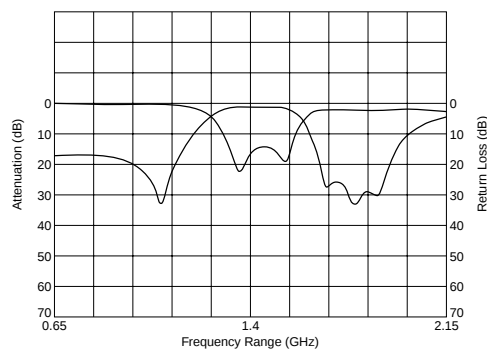


Part Number	Nominal Center Frequency (fo) (MHz)	Bandwidth (BW) (MHz)	Insertion Loss in BW (dB)	Attenuation (Absolute Value) I) (dB)	Attenuation (Absolute Value) II) (dB)
LFB311G48SG1-985	1489.0	fo±12.0	1.5 max. (at 25°C)	25.0 min. at (fo±12.0)+260MHz	28.0 min. at 1749MHz
LFB311G90SG1-799	1906.5	fo +24.5/-13.5MHz	2.5 max. (at 25°C)	40.0 min. at 1397.05~1422.85MHz	35.0 min. at 1645.5~1671.3MHz
LFB311G90SG2-797	1906.5	fo±13.5	2.7 max. (at 25°C)	40.0 min. at 1427~1454MHz	35.0 min. at 1660~1687MHz
LFB311G95SG3A564	1950.0	fo±30.0	3.5 max. (at 25°C)	20.0 min. at 2110~2170MHz	25.0 min. at 2490~2550MHz
LFB312G45SG2A509	2450.0	fo±50.0	2.0 max. (at 25°C)	38.0 min. at 902~928MHz	15.0 min. at 2100~2200MHz

● LFB31_SL Series

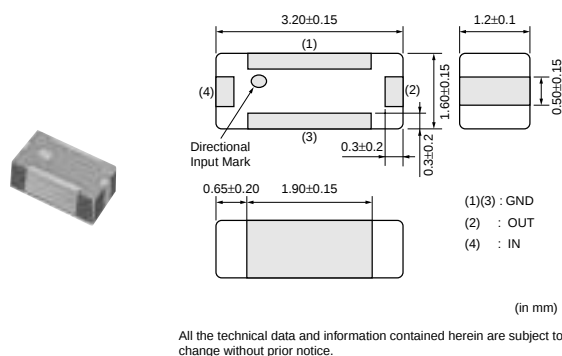


Frequency Characteristics

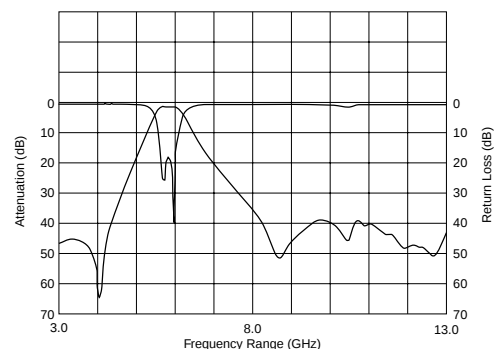


Part Number	Nominal Center Frequency (fo) (MHz)	Bandwidth (BW) (MHz)	Insertion Loss in BW (dB)	Attenuation (Absolute Value) I) (dB)	Attenuation (Absolute Value) II) (dB)
LFB311G40SL1A562	1402.5	fo±77.5	3.0 max. (at 25°C)	20.0 min. at 1005~1080MHz	20.0 min. at 1725~1760MHz

● LFB31_SN Series

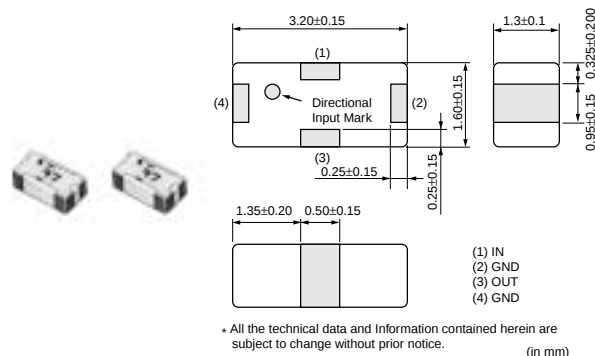


Frequency Characteristics

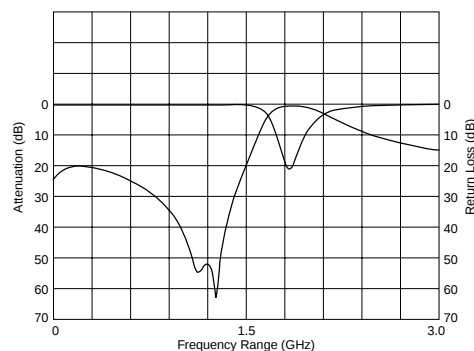


Part Number	Nominal Center Frequency (fo) (MHz)	Bandwidth (BW) (MHz)	Insertion Loss in BW (dB)	Attenuation (Absolute Value) I) (dB)	Attenuation (Absolute Value) II) (dB)
LFB315G82SN1-996	5820.0	fo±30.0	2.0 max. (at 25°C)	35.0 min. at 2000MHz	30.0 min. at 3000MHz

● LFB31_SP Series

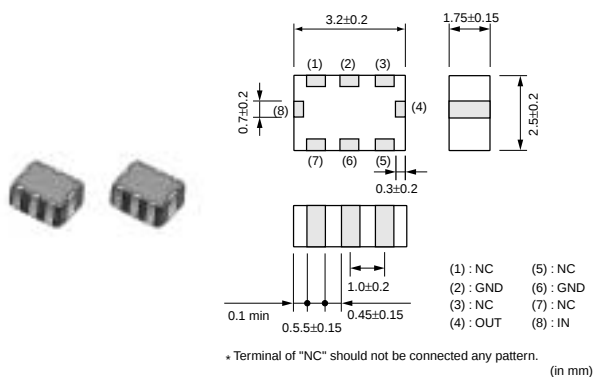


Frequency Characteristics

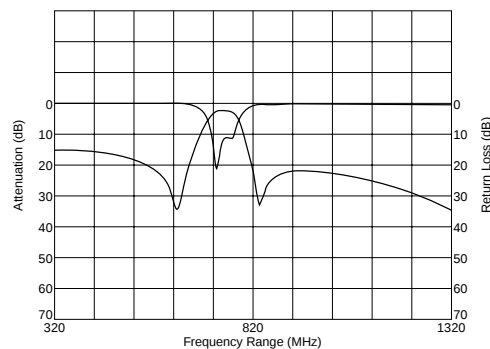


Part Number	Nominal Center Frequency (fo) (MHz)	Bandwidth (BW) (MHz)	Insertion Loss in BW (dB)	Attenuation (Absolute Value) I) (dB)	Attenuation (Absolute Value) II) (dB)
LFB311G89SP1A542	1890.0	fo±10.0	0.85 max. (at 25°C)	29.0 min. at 1416.9~1436.9Hz	22.0 min. at 900MHz
LFB311G90SP1-798	1906.5	fo±13.5	1.0 max. (at 25°C)	38.0 min. at 1405~1440MHz	12.0 min. at 1649~1680MHz
LFB312G45SP1A502	2450.0	fo±50.0	1.4 max. (at 25°C)	20.0 min. at 902~928MHz	35.0 min. at 1500~1550MHz

● LFB32_SA Series

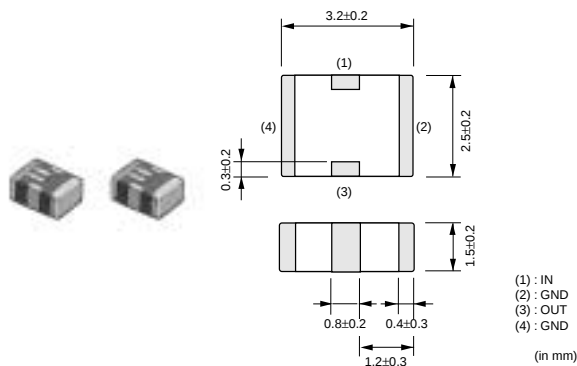


Frequency Characteristics

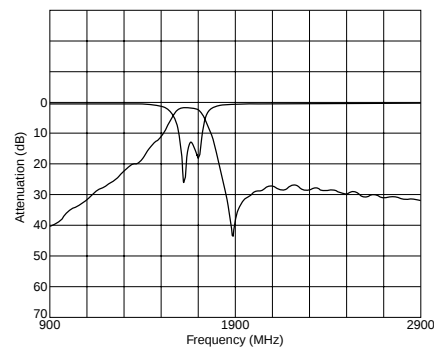


Part Number	Nominal Center Frequency (fo) (MHz)	Bandwidth (BW) (MHz)	Insertion Loss in BW (dB)	Attenuation (Absolute Value) I) (dB)	Attenuation (Absolute Value) II) (dB)
LFB32741MSA1-744	741.5	$f_o \pm 19.5$	3.5 max. (at 25°C)	20.0 min. at 612~650MHz	20.0 min. at 832~870MHz
LFB32836MSA1-747	836.5	$f_o \pm 12.5$	3.0 max. (at 25°C)	19.5 min. at $f_o \pm 77.5$ MHz	-
LFB32851MSA1A540	851.0	$f_o \pm 19.0$	3.5 max. (at 25°C)	20.0 min. at $f_o - 90.0$ MHz	18.0 min. at $f_o + 90.0$ MHz
LFB32881MSA1-781	881.5	$f_o \pm 12.5$	4.8 max. (at 25°C)	11.0 min. at 824~837MHz	5.0 min. at 846~849MHz
LFB32881MSA1A556	881.5	$f_o \pm 12.5$	3.2 max. (at 25°C)	20.0 min. at $f_o \pm 77.5$ MHz	-
LFB32902MSA1A536	902.5	$f_o \pm 12.5$	3.0 max. (at 25°C)	15.0 min. at 802~827MHz	15.0 min. at 978~1003MHz
LFB32906MSA1A539	906.0	$f_o \pm 19.0$	3.5 max. (at 25°C)	20.0 min. at $f_o - 90.0$ MHz	18.0 min. at $f_o + 90.0$ MHz
LFB32947MSA1A537	947.0	$f_o \pm 12.5$	3.0 max. (at 25°C)	9.0 min. at D.C.~835MHz	6.0 min. at 1000~1394MHz
LFB32991MSA1-762	991.15	$f_o \pm 12.5$	3.0 max. (at 25°C)	20.0 min. at 869~894MHz	20.0 min. at 1088.3~1113.3MHz
LFB321G44SA1A538	1441.0	$f_o \pm 12.0$	3.0 max. (at 25°C)	25.0 min. at 1607~1631MHz	-
LFB321G61SA1A555	1619.0	$f_o \pm 12.0$	2.8 max. (at 25°C)	20.0 min. at 1477~1501MHz	16.0 min. at 1429~1453MHz

● LFB32_SB Series

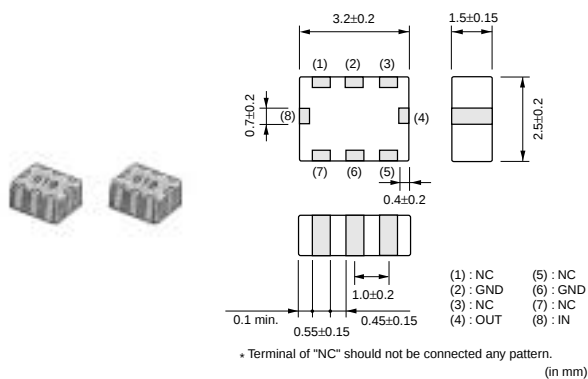


Frequency Characteristics

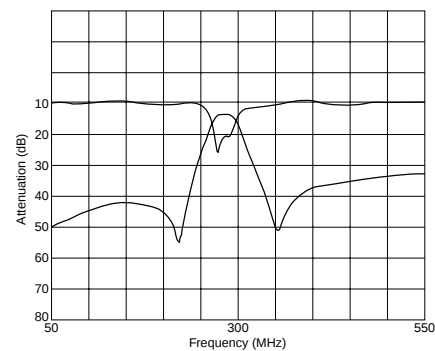


Part Number	Nominal Center Frequency (fo) (MHz)	Bandwidth (BW) (MHz)	Insertion Loss in BW (dB)	Attenuation (Absolute Value) I) (dB)	Attenuation (Absolute Value) II) (dB)
LFB321G66SB1-560	1662.0	$f_o \pm 12.5$	2.0 max. (at 25°C)	27.0 min. at 1895~1918MHz	20.0 min. at $2 \times f_o$ MHz
LFB321G89SB1-591	1890.0	$f_o \pm 10.0$	1.2 max. (at 25°C)	21.0 min. at 1655~1675MHz	15.0 min. at $2 \times f_o$ MHz
LFB321G90SB1-559	1907.5	$f_o \pm 12.5$	1.0 max. (at 25°C)	35.0 min. at 1397.5~1440MHz	20.0 min. at 1646~1680MHz

● LFB32_SC Series

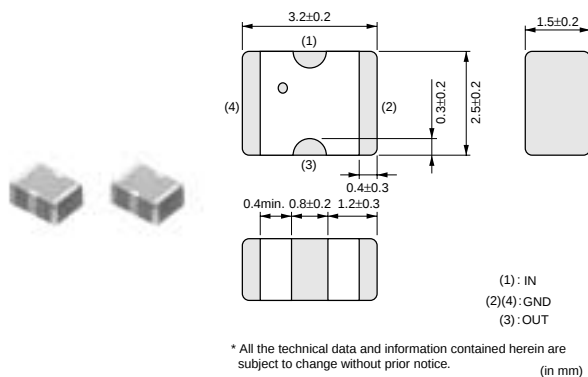


Frequency Characteristics

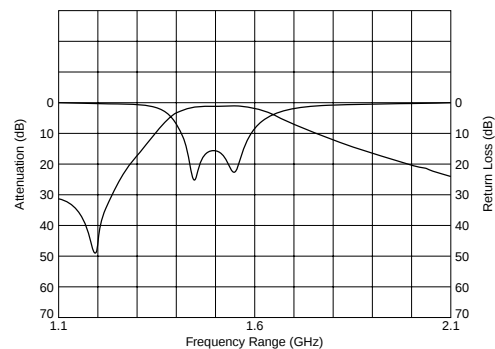


Part Number	Nominal Center Frequency (fo) (MHz)	Bandwidth (BW) (MHz)	Insertion Loss in BW (dB)	Attenuation (Absolute Value) I) (dB)	Attenuation (Absolute Value) II) (dB)
LFB32284MSC1-596	284.0	fo±4.0	3.8 max. (at 25°C)	31.0 min. at 220~228MHz	23.0 min. at 340~348MHz
LFB32312MSC1-597	312.25	fo±1.0	3.5 max. (at 25°C)	26.0 min. at 249.8MHz	26.0 min. at 374.7MHz
LFB32315MSC1-604	315.0	fo±0.5	3.5 max. (at 25°C)	45.0 min. at 180MHz	29.0 min. at 470MHz
LFB32315MSC1-619	315.0	fo±0	3.5 max. (at 25°C)	30.0 min. at 235MHz	30.0 min. at 395MHz
LFB32426MSC1-603	426.5	fo±0.5	3.6 max. (at 25°C)	25.0 min. at 366.5MHz	20.0 min. at 486.5MHz
LFB32820MSC2-749	820.0	fo±10.0	1.3 max. (at 25°C)	22.0 min. at 1070~1090MHz	-
LFB32847MSC2-766	847.5	fo±37.5	1.5 max. (at 25°C)	16.0 min. at 550~625MHz	15.0 min. at 1070~1145MHz

● LFB32_SJ Series

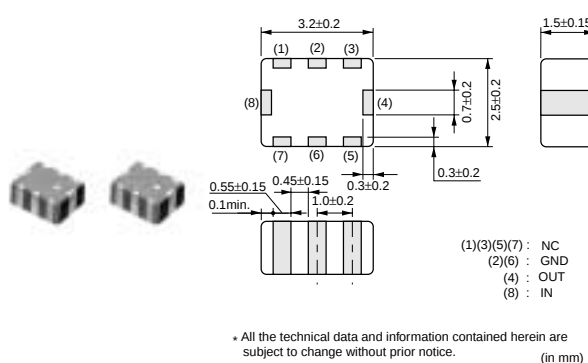


Frequency Characteristics

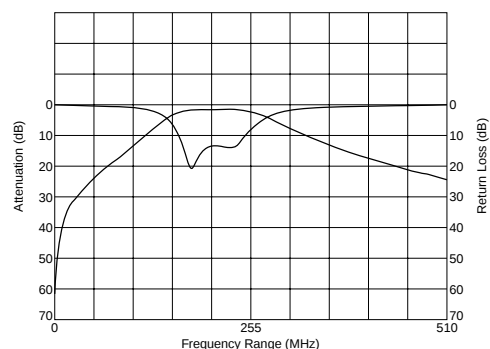


Part Number	Nominal Center Frequency (fo) (MHz)	Bandwidth (BW) (MHz)	Insertion Loss in BW (dB)	Attenuation (Absolute Value) I) (dB)	Attenuation (Absolute Value) II) (dB)
LFB321G47SJ1-794	1472.0	fo±20.0	1.3 max. (at 25°C)	30.0 min. at 1172MHz	-

● LFB32_SK Series

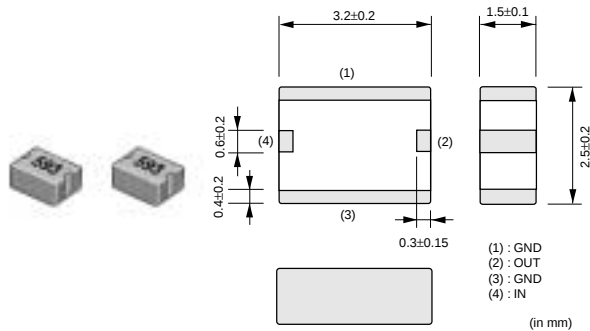


Frequency Characteristics

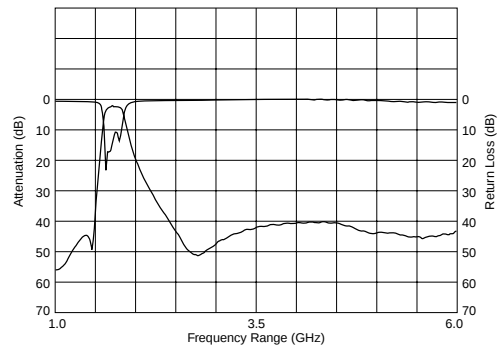


Part Number	Nominal Center Frequency (fo) (MHz)	Bandwidth (BW) (MHz)	Insertion Loss in BW (dB)	Attenuation (Absolute Value) I) (dB)	Attenuation (Absolute Value) II) (dB)
LFB32205MSK1-948	205.5	fo±31.5	1.5 max. (at 25°C)	10.0 min. at 100MHz	20.0 min. at 500MHz

● LFB32_SN Series



Frequency Characteristics

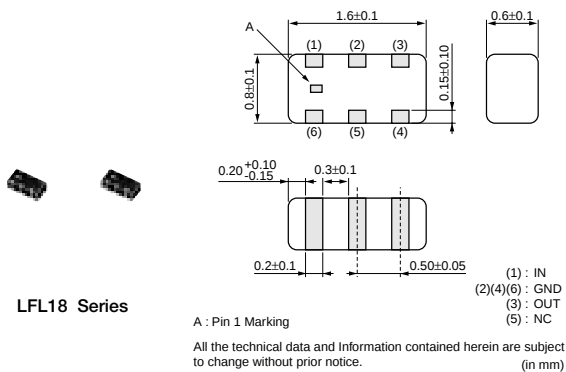


Part Number	Nominal Center Frequency (fo) (MHz)	Bandwidth (BW) (MHz)	Insertion Loss in BW (dB)	Attenuation (Absolute Value) I) (dB)	Attenuation (Absolute Value) II) (dB)
LFB321G74SN1-770	1747.5	fo±37.5	2.5 max. (at 25°C)	20.0 min. at D.C.~1350MHz	30.0 min. at 1350~1425MHz
LFB321G84SN1-796	1842.5	fo±37.5	2.5 max. (at 25°C)	48.0 min. at 500~1450MHz	40.0 min. at 1450~1480MHz
LFB321G90SN1-593	1907.5	fo±12.5	2.5 max. (at 25°C)	40.0 min. at 1406.5~1440MHz	35.0 min. at 1655~1680MHz
LFB322G45SN1-947	2450.0	fo±50.0	2.5 max. (at 25°C)	40.0 min. at 1950MHz	16.0 min. at 2200MHz
LFB322G45SN1A504	2450.0	fo±50.0	1.8 max. (at 25°C)	48.0 min. at 902~928MHz	50.0 min. at 1500~1550MHz

for RF/Local

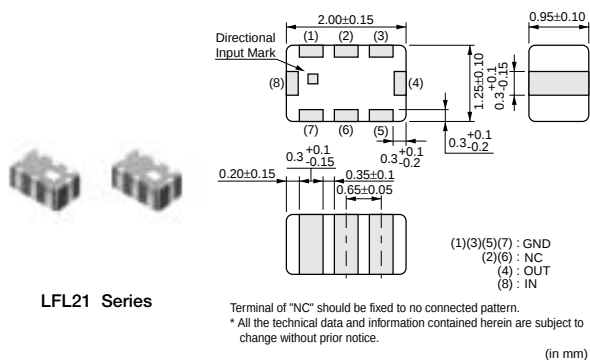
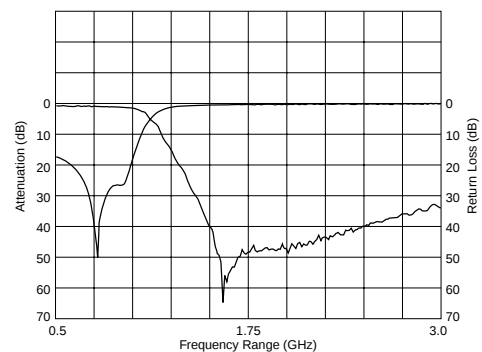
Chip Multilayer LC Filters (LPF)

● LFL18/21_TC Series



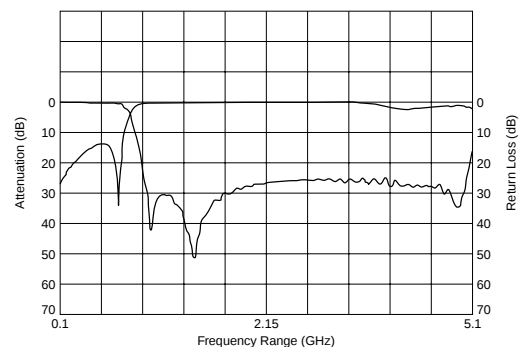
LFL18 Series

Frequency Characteristics



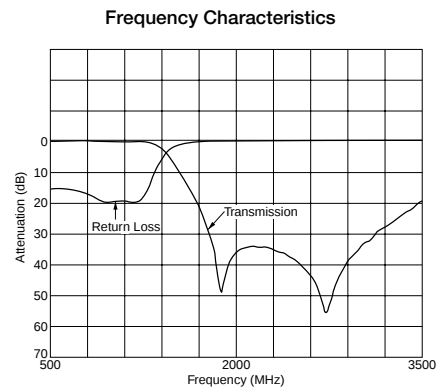
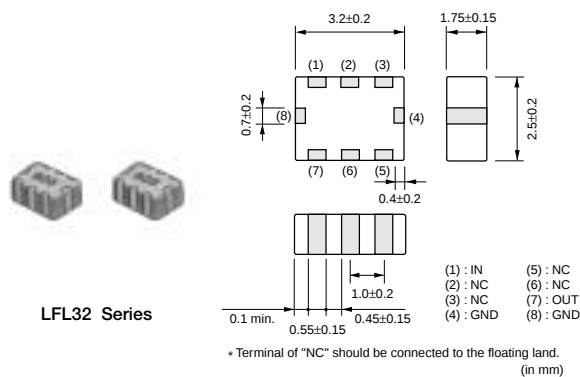
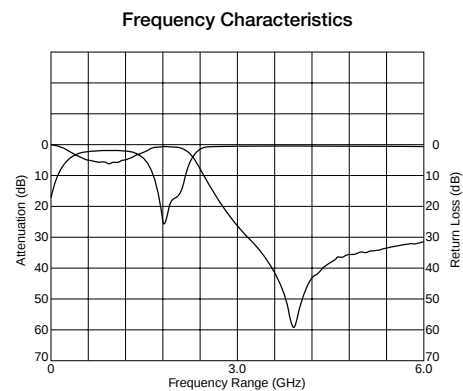
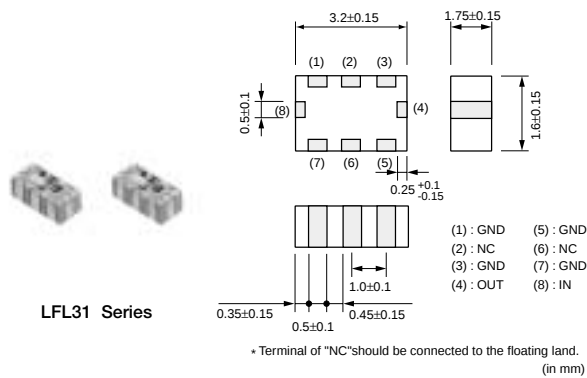
LFL21 Series

Frequency Characteristics



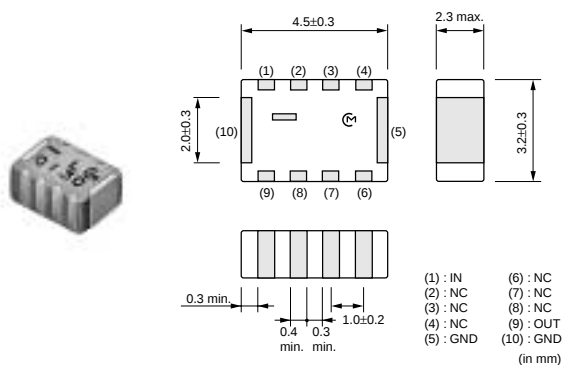
Part Number	Nominal Center Frequency (fo) (MHz)	Bandwidth (BW) (MHz)	Insertion Loss in BW (dB)	Attenuation (Absolute Value) I) (dB)	Attenuation (Absolute Value) II) (dB)
LFL18815MTC2A072	815.5	fo±9.5	0.80 max. (at 25°C)	35.0 min. at 2x(fo±9.5)MHz	30.0 min. at 3x(fo±9.5)MHz
LFL18924MTC1A052	924.5	fo±35.0	0.40 max. (at 25°C)	20.0 min. at 2x(fo±35.0)MHz	15.0 min. at 3x(fo±35.0)MHz
LFL21600MTC2A002	600.0	fo±250.0	1.37 max. (at 25°C)	20.0 min. at 1550~4250MHz	9.0 min. at 1100MHz
LFL21847MTC1A006	847.5	fo±37.5	0.75 max. (at 25°C)	30.0 min. at 2x(fo±37.5)MHz	30.0 min. at 3x(fo±37.5)MHz
LFL21902MTC1A018	902.5	fo±12.5	0.6 max. (at 25°C)	30.0 min. at 2x(fo±12.5)MHz	30.0 min. at 3x(fo±12.5)MHz
LFL211G35TC2A001	1350.0	fo±250.0	0.92 max. (at 25°C)	25.0 min. at 2300~5000MHz	-
LFL211G44TC1A014	1441.0	fo±12.0	0.47 max. (at 25°C)	31.0 min. at 2xfoMHz	26.0 min. at 3xfoMHz
LFL211G79TC1A011	1795.0	fo±85.0	0.47 max. (at 25°C)	30.0 min. at 2x(1747.5±37.5)MHz	25.0 min. at 2x(1842.5±37.5)MHz
LFL211G89TC1A015	1890.0	fo±10.0	0.47 max. (at 25°C)	30.0 min. at 2x(fo±10.0)MHz	26.0 min. at 3x(fo±10.0)MHz
LFL211G90TC1A008	1907.5	fo±12.5	0.47 max. (at 25°C)	30.0 min. at 2x(fo±12.5)MHz	25.0 min. at 3x(fo±12.5)MHz
LFL211G92TC1A060	1920.0	fo±70.0	0.6 max. (at 25°C)	24.0 min. at 3335~3700MHz	30.0 min. at 3700~3820MHz
LFL212G45TC1A007	2450.0	fo±50.0	0.50 max. (at 25°C)	27.0 min. at 2x(fo±50.0)MHz	30.0 min. at 3x(fo±50.0)MHz

● LFL31/32_TB Series

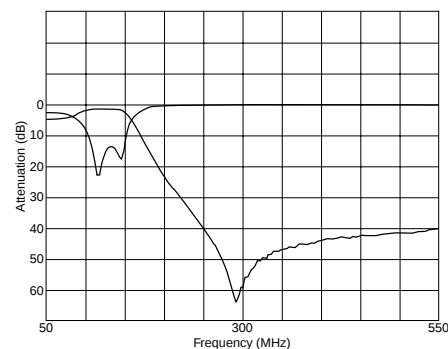


Part Number	Nominal Center Frequency (fo) (MHz)	Bandwidth (BW) (MHz)	Insertion Loss in BW (dB)	Attenuation (Absolute Value) I) (dB)	Attenuation (Absolute Value) II) (dB)
LFL311G92TB2-678	1920.0	fo±70.0	0.8 max. (at 25°C)	25.0 min. at 3296~3700MHz	30.0 min. at 3700~3820MHz
LFL32902MTB1-606	902.5	fo±12.5	0.50 max. (at 25°C)	30.0 min. at 2xfo MHz	25.0 min. at 3xfo MHz
LFL32942MTB1-605	942.5	fo±17.5	0.50 max. (at 25°C)	30.0 min. at 2xfo MHz	25.0 min. at 3xfo MHz

● LFL43_AK Series



Frequency Characteristics

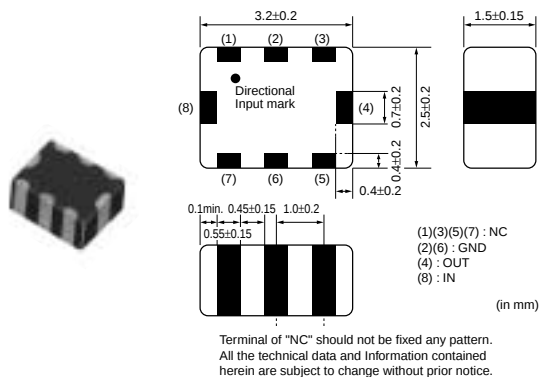


Part Number	Nominal Center Frequency (fo) (MHz)	Bandwidth (BW) (MHz)	Insertion Loss in BW (dB)	Attenuation (Absolute Value) I) (dB)	Attenuation (Absolute Value) II) (dB)
LFL43130MAK1-494	130.0	fo±0.5	1.5 max. (at 25°C)	30.0 min. at 2xfo MHz	25.0 min. at 3xfo MHz
LFL43178MAK1-480	178.0	fo±0.5	1.5 max. (at 25°C)	30.0 min. at 2xfo MHz	25.0 min. at 3xfo MHz
LFL43240MAK1-664	240.0	fo±0.5	1.5 max. (at 25°C)	30.0 min. at 2xfo MHz	25.0 min. at 3xfo MHz
LFL43248MAK1-864	248.45	fo±0.5	1.5 max. (at 25°C)	30.0 min. at 2xfo MHz	25.0 min. at 3xfo MHz
LFL43310MAK1A330	310.0	fo±1.0	1.5 max. (at 25°C)	30.0 min. at 2xfo MHz	25.0 min. at 3xfo MHz
LFL43435MAK1-860	435.0	fo±5.0	1.5 max. (at 25°C)	30.0 min. at 2xfo MHz	25.0 min. at 3xfo MHz
LFL43445MAK1A332	445.0	fo±5.0	1.2 max. (at 25°C)	30.0 min. at 2xfo MHz	25.0 min. at 3xfo MHz

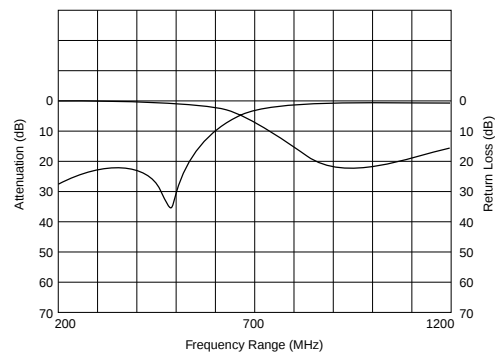
for RF/Local

Chip Multilayer LC Filters (HPF)

● LFH32_RA Series



Frequency Characteristics

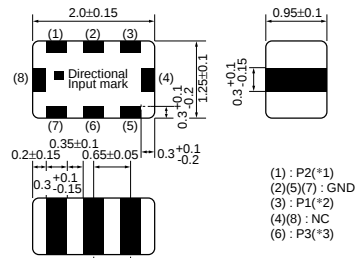


Part Number	Nominal Center Frequency (fo) (MHz)	Bandwidth (BW) (MHz)	Insertion Loss in BW (dB)	Attenuation (Absolute Value) I) (dB)	Attenuation (Absolute Value) II) (dB)
LFH32942MRA1A517	942.5	fo±17.5	0.5 max. (at 25°C)	4.5 min. at 480~600MHz	25.0 min. at 480MHz

for RF/Local

Chip Multilayer Diplexers

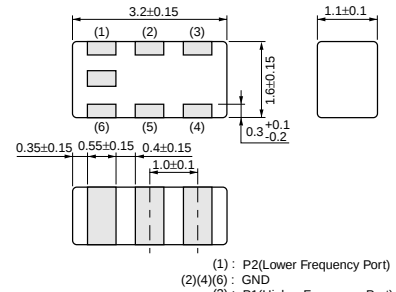
LFD21 Series



(*1) Lower Frequency Port
 (*2) Higher Frequency Port
 (*3) Common Port
 Terminal of "NC" should be fixed to the no connected pattern.

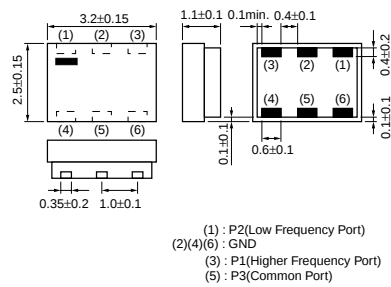
All the technical data and information contained herein are subject to change without prior notice. (in mm)

LFD31 Series



(1) : P2(Lower Frequency Port)
 (2)(4)(6) : GND
 (3) : P1(Higher Frequency Port)
 (5) : P3(Common Port)
 * All the technical data and information contained herein are subject to change without prior notice. (in mm)

LFD32 Series



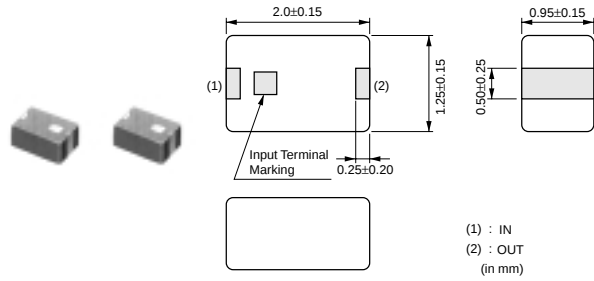
(1) : P2(Low Frequency Port)
 (2)(4)(6) : GND
 (3) : P1(Higher Frequency Port)
 (5) : P3(Common Port)

* All the technical data and information contained herein are subject to change without prior notice. (in mm)

Part Number	Frequency Range[P1](f1) (MHz)	Frequency Range[P2](f2) (MHz)	Insertion Loss [P1-P3](in f1) (dB)	Insertion Loss [P2-P3](in f2) (dB)	Attenuation [P1-P3](in f2) (dB)	Attenuation [P2-P3](in f1) (dB)
LFD21859MDP1A049	1920.0 ±70.0MHz	859.0 ±35.0MHz	0.45 max. (at 25°C)	0.40 max. (at 25°C)	19.0 min.	20.0 min.
LFD21884MDP1A062	1906.5 ±13.0MHz	884.0 ±74.0MHz	0.45 max. (at 25°C)	0.50 max. (at 25°C)	20.0 min.	20.0 min.
LFD21920MDP1A048	1795.0 ±85.0MHz	920.0 ±40.0MHz	0.55 max. (at 25°C)	0.50 max. (at 25°C)	20.0 min.	16.0 min.
LFD31859MDP1A009	1920.0 ±70.0MHz	859.0 ±35.0MHz	0.45 max. (at 25°C)	0.40 max. (at 25°C)	20.0 min.	20.0 min.
LFD31884MDP1A030	1906.5 ±13.0MHz	884.0 ±74.0MHz	0.45 max. (at 25°C)	0.50 max. (at 25°C)	19.0 min.	19.0 min.
LFD31897MDP1A010	1810.0 ±100.0MHz	897.5 ±17.5MHz	0.6 max. (at 25°C)	0.5 max. (at 25°C)	20.0 min.	17.0 min.
LFD31920MDP1A003	1795.0 ±85.0MHz	920.0 ±40.0MHz	0.55 max. (at 25°C)	0.50 max. (at 25°C)	20.0 min.	16.0 min.
LFD31920MDP1A040	1850.0 ±140.0MHz	920.0 ±40.0MHz	0.65 max. (at 25°C)	0.50 max. (at 25°C)	20.0 min.	15.0 min.
LFD31993MDP1A032	2072.34 ±30.0MHz	993.84 ±12.5MHz	0.4 max. (at 25°C)	0.4 max. (at 25°C)	20.0 min.	20.0 min.
LFD32859MDP1-832	1924.5 ±74.5MHz	859.0 ±35.0MHz	0.65 max. (at 25°C)	0.50 max. (at 25°C)	26.0 min.	18.0 min.
LFD32885MDP1-831	1907.5 ±12.5MHz	885.0 ±75.0MHz	0.55 max. (at 25°C)	0.55 max. (at 25°C)	21.0 min.	18.0 min.
LFD32920MDP1-856	1795.0 ±85.0MHz	920.0 ±40.0MHz	0.65 max. (at 25°C)	0.50 max. (at 25°C)	22.0 min.	18.0 min.
LFD32925MDP1-834	1795.0 ±85.0MHz	925.0 ±35.0MHz	0.65 max. (at 25°C)	0.50 max. (at 25°C)	24.0 min.	18.0 min.
LFD32967MDP1-830	2045.0 ±30.0MHz	967.0 ±13.0MHz	0.60 max. (at 25°C)	0.45 max. (at 25°C)	27.0 min.	20.0 min.
LFD32994MDP1-876	2073.0 ±30.0MHz	994.0 ±14.0MHz	0.60 max. (at 25°C)	0.45 max. (at 25°C)	24.0 min.	20.0 min.

for RF/Local

Chip Multilayer LC Filters(Trap)

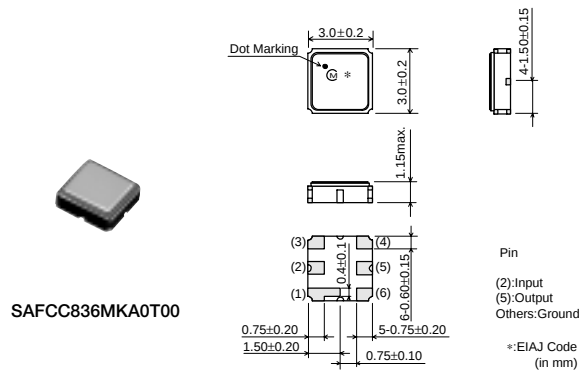


Part Number	Center Frequency of Rejection Band (MHz)	Pass Bandwidth(BW) (MHz)	Insertion Loss in BW (dB)	Attenuation (Absolute Value) (dB)
LFE21560MFA1A004	560.0	810~885	0.7 max. (at 25°C)	10.0 min. at 550~570MHz

for RF/Local

SAW Filters

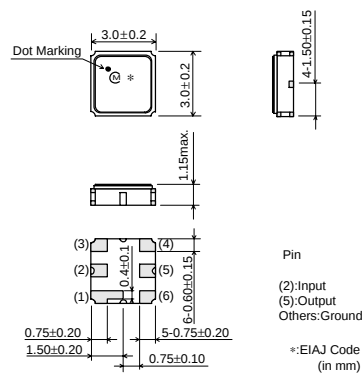
● AMPS/ADC



Part Number	Center Frequency (MHz)	Insertion Loss(dB min.) (dB)	Ripple(dB max.)	VSWR	Input/Output Impedance
SAFCC836MKA0T00	836.5	3.5 max.(824MHz~849MHz)	2.0(824MHz~849MHz)	2.0(824MHz~849MHz)	50ohm
SAFCE836MAM0T00	836.5	3.8 max.(824MHz~849MHz)	1.8(824MHz~849MHz)	2.0(824MHz~849MHz)	50ohm
SAFCE881MAA0T00	881.5	2.5 max.(869MHz~894MHz)	1.5(869MHz~894MHz)	2.5(869MHz~894MHz)	50ohm
SAFCE881MAM0T00	881.5	3.5 max.(869MHz~894MHz)	1.5(869MHz~894MHz)	2.0(869MHz~894MHz)	50ohm
SAFSG881MAL0T00	881.5	3.5 max.(869MHz~894MHz)	2.0(869MHz~894MHz)	2.2(869MHz~894MHz)	50ohm

● DSC1800

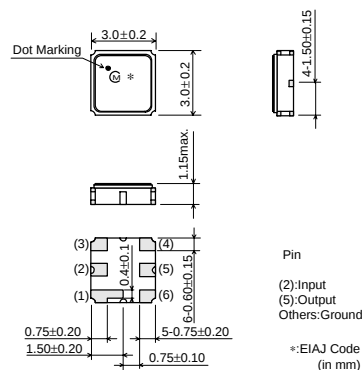
SAFCC1G74KA0T00



Part Number	Center Frequency (MHz)	Insertion Loss(dB min.) (dB)	Ripple(dB max.)	VSWR	Input/Output Impedance
SAFCC1G74KA0T00	1747.5	4.2 max.(1710MHz~1785MHz)	2.6(1710MHz~1785MHz)	2.5(1710MHz~1785MHz)	50ohm
SAFCC1G84KA0T00	1842.5	4.2 max.(1805~1880MHz)	2.8(1805MHz~1880MHz)	2.8(1805MHz~1880MHz)	50ohm

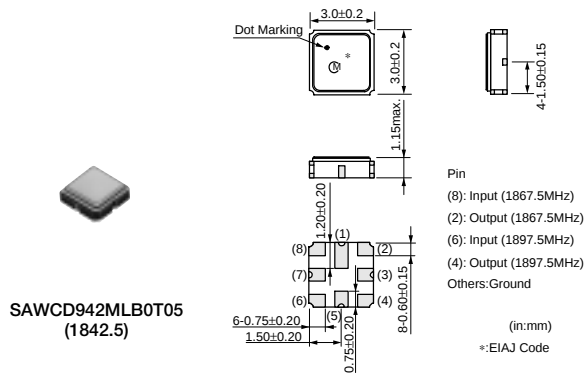
● GSM

SAFCC897MKA0T00



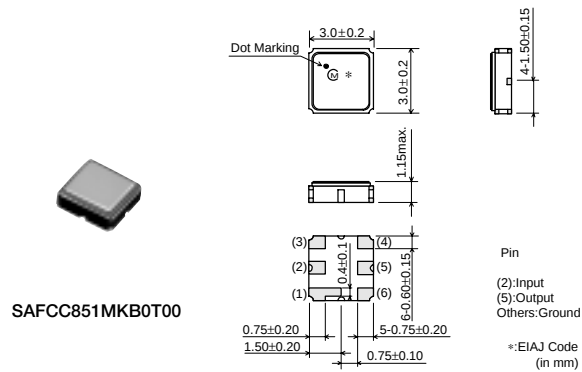
Part Number	Center Frequency (MHz)	Insertion Loss(dB min.) (dB)	Ripple(dB max.)	VSWR	Input/Output Impedance
SAFCC897MKA0T00	897.5	3.2 max.(880MHz~915MHz)	1.8(880MHz~915MHz)	2.2(880MHz~915MHz)	50ohm
SAFCC942MAA0T00	942.5	3.0 max.(925MHz~960MHz)	1.7(925MHz~960MHz)	2.8(925MHz~960MHz)	50ohm
SAFCC942MAM0T00	942.5	4.2 max.(925MHz~960MHz)	2.5(925MHz~960MHz)	2.4(925MHz~960MHz)	50ohm
SAFCC942MCM0T00	942.5	4.2 max.(925MHz~960MHz)	2.4(925MHz~960MHz)	2.6(925MHz~960MHz)	50ohm
SAFCC942MFN0T00	942.5	3.5 max.(925MHz~960MHz)	2.0(925MHz~960MHz)	2.3(925MHz~960MHz)	50ohm
SAFCE902MAM0T00	902.5	3.5 max.(890MHz~915MHz)	1.5(890MHz~915MHz)	2.1(890MHz~915MHz)	50ohm
SAFCE947MAA0T00	947.5	3.0 max.(935MHz~960MHz)	1.5(935MHz~960MHz)	2.2(935MHz~960MHz)	50ohm
SAFCE947MAM0T00	947.5	3.5 max.(935MHz~960MHz)	1.5(935MHz~960MHz)	2.3(935MHz~960MHz)	50ohm

● GSM/DCS Dual-band



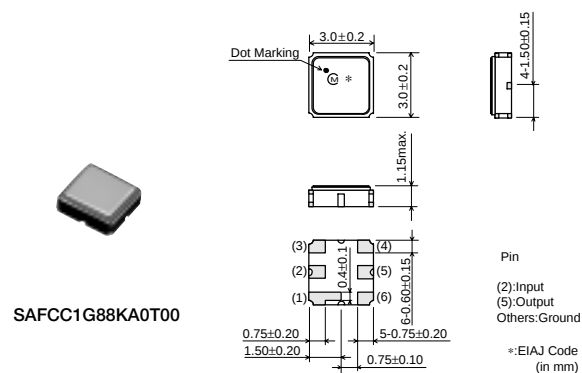
Part Number	Center Frequency (MHz)	Insertion Loss(dB min.) (dB)	Ripple(dB max.)	VSWR	Input/Output Impedance
SAWCD942MLB0T05(1842.5)	1842.5	3.2 max.(1805MHz~1880MHz)	2.2(1805MHz~1880MHz)	2.5(1805MHz~1880MHz)	50ohm
SAWCD942MLB0T05(942.5)	942.5	3.0 max.(925MHz~960MHz)	2.5(925MHz~960MHz)	2.5(925MHz~960MHz)	50ohm

● J-CDMA



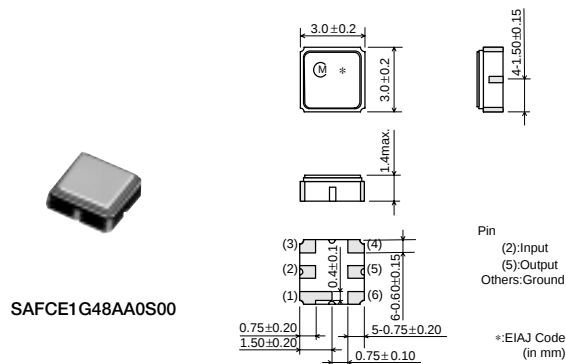
Part Number	Center Frequency (MHz)	Insertion Loss(dB min.) (dB)	Ripple(dB max.)	VSWR	Input/Output Impedance
SAFCC851MKB0T00	851	3.5 max.(832MHz~870MHz)	2.5(832MHz~870MHz)	2.2(832MHz~870MHz)	50ohm
SAFCC906MKA0T00	906	4.5 max.(887MHz~925MHz)	2.8(887MHz~925MHz)	2.8(887MHz~925MHz)	50ohm

● PCS(CDMA)



Part Number	Center Frequency (MHz)	Insertion Loss(dB min.) (dB)	Ripple(dB max.)	VSWR	Input/Output Impedance
SAFCC1G88KA0T00	1880	4.5 max.(1850MHz~1910MHz)	3.0(1850MHz~1910MHz)	2.5(1850MHz~1910MHz)	50ohm
SAFCC1G96KA0T00	1960	4.5 max.(1930MHz~1990MHz)	3.0(1930MHz~1990MHz)	2.5(1930MHz~1990MHz)	50ohm
SAWCD1G86LA0T00(1867.5)	1867.5	3.2 max.(1850MHz~1885MHz)	2.0(1850MHz~1885MHz)	2.0(1850MHz~1885MHz)	50ohm
SAWCD1G86LA0T00(1897.5)	1897.5	3.2 max.(1885MHz~1910MHz)	2.0(1885MHz~1910MHz)	2.0(1885MHz~1910MHz)	50ohm

● PDC



SAFCE1G48AA0S00

Part Number	Center Frequency (MHz)	Insertion Loss(dB min.) (dB)	Ripple(dB max.)	VSWR	Input/Output Impedance
SAFCE1G48AA0S00	1489.0	2.0 max.(1477MHz~1501MHz)	1.2(1477MHz~1501MHz)	2.7(1477MHz~1501MHz)	50ohm
SAFCE820MAA0N00	820.0	2.5 max.(810MHz~830MHz)	1.5(810MHz~830MHz)	2.5(810MHz~830MHz)	50ohm
SAFCE820MAB0T00	820.0	2.2 max.(810MHz~830MHz)	1.3(810MHz~830MHz)	2.5(810MHz~830MHz)	50ohm
SAFCE950MAL0N00	950.0	3.8 max.(940MHz~960MHz)	1.7(940MHz~960MHz)	2.3(940MHz~960MHz)	50ohm
SAFCE950MAM0T00	950.0	3.5 max.(940MHz~960MHz)	1.5(940MHz~960MHz)	2.5(940MHz~960MHz)	50ohm
SAFSF1G44AA0T00	1441	2.7 max.(1429MHz~1453MHz)	1.5(1429MHz~1453MHz)	2.3(1429MHz~1453MHz)	50ohm
SAFSF1G48AB0T00	1489	2.7 max.(1477MHz~1501MHz)	1.5(1477MHz~1501MHz)	2.3(1477MHz~1501MHz)	50ohm
SAFSF1G48AC0T00	1489	2.5 max.(1477MHz~1501MHz)	1.5(1477MHz~1501MHz)	2.3(1477MHz~1501MHz)	50ohm
SAWSG895MAD0T00(895.5)	895.5	3.8 max.(893MHz~898MHz)	2.3(893MHz~898MHz)	2.5(893MHz~898MHz)	50ohm
SAWSG895MAD0T00(942.5)	942.5	3.5 max.(925MHz~960MHz)	2.5(925MHz~960MHz)	3.2(925MHz~960MHz)	50ohm
SAWSL826MBM0T00	826.5 (877.5MHz)	3.7 max.(810~843MHz), 4.2dB max.(870~885MHz)	2.6(810MHz~843MHz), 2.3(870MHz~885MHz)	2.5(810MHz~843MHz), 2.5(870MHz~885MHz)	50ohm

Ceramic Filters (CERAFIL®)

●SMD Type (MHz)

Type	Series	Features	Application
Ceramic Package	SFECS10M8□	- Single type. 3dB bandwidth is available in $\pm 110\text{kHz}$, $\pm 135\text{kHz}$ and $\pm 150\text{kHz}$. - Types with 10.8MHz of center frequencies is available.	PHS
	SFECS13M0□	- Single type. 3dB bandwidth is available in $\pm 90\text{kHz}$. - Types with 13.0MHz of center frequencies is available.	GSM / DCS Dual Band
Small Metal Case	SFSCA□U□	- Single type. - Any other center frequencies are also available upon request.	GSM
	SFJCA□U□	- Dual type. - Any other center frequencies are also available upon request.	GSM

●SMD Type (kHz)

Type	Applications	General Use											Attenuation (dB) min.
		AMPS	PDC	PAGER CORDLESS	TACS CORDLESS	FM	6dB Bandwidth (kHz) min.						
	Series	A	B	C	D	E	F	G	H	J	K	L	
		±17.5	±15	±12.5	±10	±7.5	±6	±4.5	±3	±2	±1.5	±1	
High Selectivity Series (Plastic Case Type)	SFPCA455K□ (4 Elements)	—	—	—	●	●	●	●	●	—	—	—	27 (G to H ; 25)
	CFUCG455K□ (4 Elements)	—	—	—	●	●	●	●	●	—	—	—	27 (G ; 25)
Narrow Bandwidth G.D.T. Flat Type Miniature Series (Plastic Case Type)	CFUCG455K□X (4 Elements)	—	—	—	●	●	●	●	●	—	—	—	27 (G to H ; 25)
G.D.T. Flat Type Miniature Series (Plastic Case Type)	CFUCF455K□ (4 Elements)	●	●	●	●	●	—	—	—	—	—	—	25 (D to E ; 23)
G.D.T. Flat Type High Selectivity SMD Series (Plastic Case Type)	KMFC626□ (4 Elements×2)	—	—	●	—	—	—	—	—	—	—	—	55
	CFWCA450KBFY (6 Elements)	—	●	●	—	—	—	—	—	—	—	—	
G.D.T. Flat Type High Selectivity SMD Series (Plastic Case Type)	CFWCA450K□ (6 Elements)	—	●	—	●	●	●	●	—	—	—	—	
Ultra Small Package Series (Cap Package)	CFXCA/B (4 Elements)	—	●	●	—	—	—	—	—	—	—	—	

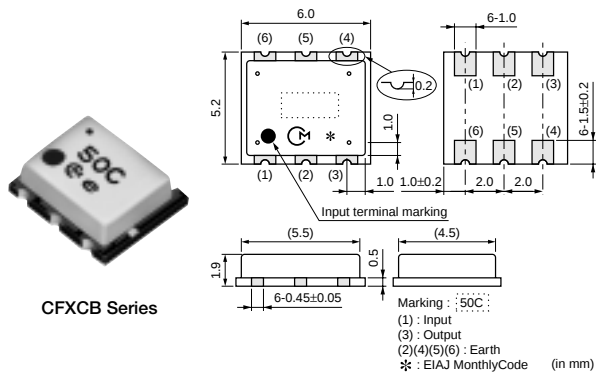
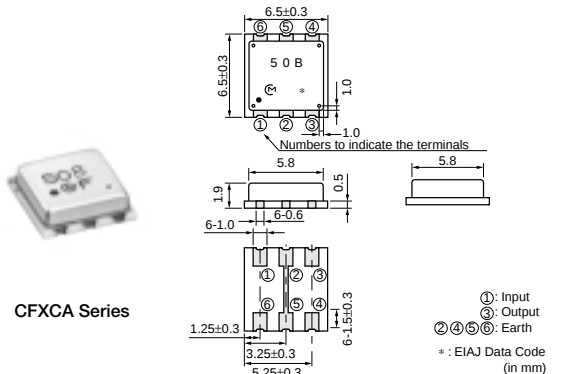
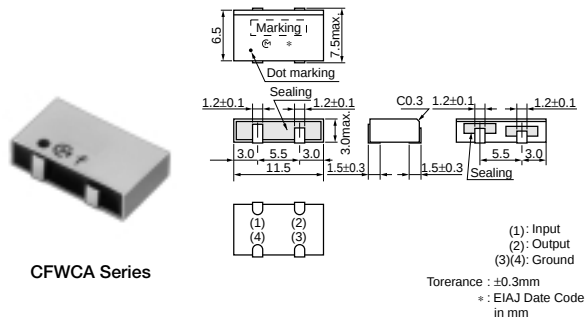
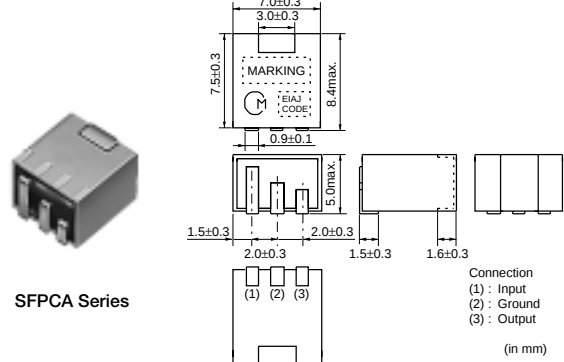
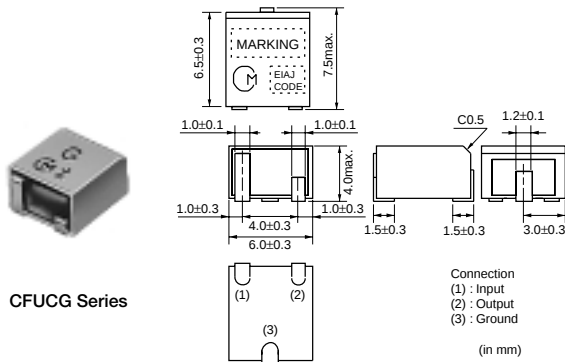
●Lead Type

Type	Applications	General Use											Attenuation (dB) min.
		AMPS	PDC	PAGER CORDLESS	TACS CORDLESS	FM							
	Series	6dB Bandwidth (kHz) min.											
		A	B	C	D	E	F	G	H	J	K	L	
		±17.5	±15	±12.5	±10	±7.5	±6	±4.5	±3	±2	±1.5	±1	
High Selectivity Low Profile Series	CFULA455K□ (4 Elements)	—	●	●	●	●	●	●	●	—	—	—	27 ^(G ; 25) (H, J ; 35)
	CFWLA455K□ (6 Elements)	—	●	●	●	●	●	●	●	●	—	—	35 (H, J ; 60)
High Selectivity Miniature Series	CFULB455K□ (4 Elements)	—	●	●	●	●	●	●	●	●	—	—	27 ^(G ; 25) (H, J ; 35)
	CFWLB455K□ (6 Elements)	—	●	●	●	●	●	●	●	●	—	—	35 (H, J ; 65)
G.D.T. Flat Type Series	CFULA455K□Y (4 Elements)	—	●	●	●	●	●	●	—	—	—	—	25 ^(D to F ; 23) (G ; 20)
	CFWLA455K□Y (6 Elements)	●	●	●	●	●	●	●	—	—	—	—	35
G.D.T. Flat Type Miniature Series	CFULB455K□Y (4 Elements)	—	●	●	●	●	●	●	—	—	—	—	25 ^(D to F ; 23) (G ; 20)
	CFWLB455K□Y (6 Elements)	●	●	●	●	●	●	●	—	—	—	—	35

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Part Number	Center Frequency (f ₀) (MHz)	Nominal Center Frequency (f _n) (MHz)	3dB Bandwidth (kHz)	6dB Bandwidth (kHz)	Stop Bandwidth (kHz)	Stop Band Attenuation (dB)	Insertion Loss (dB)	Ripple (dB)	Input/Output Impedance (ohm)
SFECS14M6SF0021-R0	14.600 ±50kHz	14.600	f _n ±300 min.	-	-	17 min.	6.0 max.	1.0 max.	330
MKFKB51M7JA0P00R11	-	51.760	f _n ±85 min.	-	-	25 min.	8.0 max.	0.5 max.	50 / -0 pF

● kHz SMD Type



Part Number	Center Frequency (f ₀) (kHz)	Nominal Center Frequency (f _n) (kHz)	3dB Bandwidth (kHz)	6dB Bandwidth (kHz)	Stop Bandwidth (kHz)	Stop Band Attenuation (dB)	Insertion Loss (dB)	Ripple (dB)	Input/Output Impedance (ohm)
CFUCG455KD4A-R0	455.0 ±1.5kHz	-	-	f _n ±10.0 min.	f _n ±20.0 max. [within 40dB]	27 min.	4.0 max.	2.0 max.	1500
CFUCG455KE4A-R0	455.0 ±1.5kHz	-	-	f _n ±7.5 min.	f _n ±15.0 max. [within 40dB]	27 min.	6.0 max.	1.5 max.	1500
CFUCG455KE4X-R0	455.0 ±1.5kHz	-	-	f _n ±7.5 min.	f _n ±17.5 max. [within 40dB]	27 min.	6.0 max.	1.0 max.	1500
CFUCG455KF4A-R0	455.0 ±1.5kHz	-	-	f _n ±6.0 min.	f _n ±12.5 max. [within 40dB]	27 min.	6.0 max.	1.5 max.	1500

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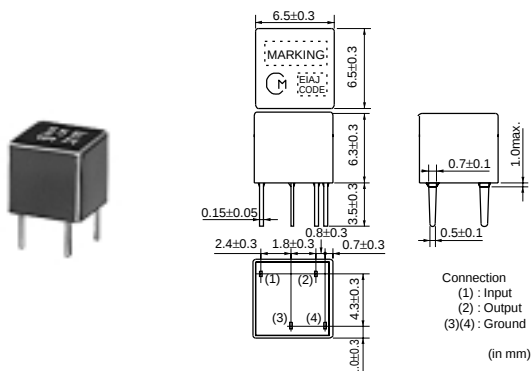
Filters for Communication Equipment

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Part Number	Center Frequency (fo) (kHz)	Nominal Center Frequency (fn) (kHz)	3dB Bandwidth (kHz)	6dB Bandwidth (kHz)	Stop Bandwidth (kHz)	Stop Band Attenuation (dB)	Insertion Loss (dB)	Ripple (dB)	Input/Output Impedance (ohm)
CFUCG455KF4X-R0	455.0 ±1.5kHz	-	-	fn±6.0 min.	fn±15.0 max. [within 40dB]	27 min.	6.0 max.	1.0 max.	1500
CFUCG455KG1A-R0	455.0 ±1.0kHz	-	-	fn±4.5 min.	fn±10.0 max. [within 40dB]	25 min.	6.0 max.	1.5 max.	1500
CFUCG455KG1X-R0	455.0 ±1.0kHz	-	-	fn±4.5 min.	fn±12.5 max. [within 40dB]	25 min.	6.0 max.	1.0 max.	1500
CFUCG455KH1X-R0	455.0 ±1.0kHz	-	-	fn±3.0 min.	fn±10.0 max. [within 40dB]	25 min.	7.0 max.	1.0 max.	1500
CFUCF455KA2X-R0	455.0 ±2.0kHz	-	-	fn±17.5 min.	fn±40.0 max. [within 40dB]	25 min.	4.0 max.	1.0 max.	1000
CFUCF455KB4X-R0	455.0 ±1.5kHz	-	-	fn±15.0 min.	fn±35.0 max. [within 40dB]	25 min.	5.0 max.	1.0 max.	1000
CFUCF455KC4X-R0	455.0 ±1.5kHz	-	-	fn±12.5 min.	fn±30.0 max. [within 40dB]	25 min.	6.0 max.	1.0 max.	1000
CFUCF455KD1X-R0	455.0 ±1.0kHz	-	-	fn±10.0 min.	fn±25.0 max. [within 40dB]	23 min.	7.0 max.	1.0 max.	1500
CFUCF455KE1X-R0	455.0 ±1.0kHz	-	-	fn±7.5 min.	fn±20.0 max. [within 40dB]	23 min.	8.0 max.	1.0 max.	1500
SFPCA455KD4A-R0	455.0 ±1.5kHz	-	-	fn±10.0 min.	fn±20.0 max. [within 40dB]	27 min.	4.0 max.	2.0 max.	1500
SFPCA455KE4A-R0	455.0 ±1.5kHz	-	-	fn±7.5 min.	fn±15.0 max. [within 40dB]	27 min.	6.0 max.	1.5 max.	1500
SFPCA455KF4A-R0	455.0 ±1.5kHz	-	-	fn±6.0 min.	fn±12.5 max. [within 40dB]	27 min.	6.0 max.	1.5 max.	1500
SFPCA455KG1A-R0	455.0 ±1.0kHz	-	-	fn±4.5 min.	fn±10.0 max. [within 40dB]	25 min.	6.0 max.	1.5 max.	1500
SFPCA455KH1A-R0	455.0 ±1.0kHz	-	-	fn±3.0 min.	fn±9.0 max. [within 40dB]	25 min.	6.0 max.	1.5 max.	2000
CFWCA450KBFY001-R0	-	450.0	fn±11.5 min.	fn±13.0 min.	fn±30.0 max. [within 50dB]	45 min.	4.0 max.	2.0 max.	1000
CFWCA450KDFA-R0	-	450.0	-	fn±10.0 min.	fn±20.0 max. [within 50dB]	50 min.	4.0 max.	3.0 max.	1500
CFWCA450KEFA-R0	-	450.0	-	fn±7.5 min.	fn±15.0 max. [within 50dB]	50 min.	6.0 max.	3.0 max.	1500
CFWCA450KEFA001-R0	-	450.0	fn±6.5 min.	-	fn±15.0 max. [within 50dB]	55 min.	4.0 max.	3.0 max.	1500
CFWCA450KFFA-R0	-	450.0	-	fn±6.0 min.	fn±12.5 min. [within 50dB]	50 min.	6.0 max.	3.0 max.	1500
CFWCA450KGFA-R0	-	450.0	-	fn±4.5 min.	fn±11.0 max. [within 50dB]	50 min.	6.0 max.	2.0 max.	1500
CFXCA450KBFA-R1	-	450.0	-	fn±15.0 min.	fn±50.0 max. [within 50dB]	47 min.	6.0 max.	0.5 max.	2000
CFXCB450KCFA011-R1	-	450.0	fn±9.0 to ±12.0kHzmax.	-	fn±35.0 max. [within 5dB]	30 min.	6.0 max.	0.5 max.	2000

For safety purposes, connect the output of filters to the IF amplifier through a DC blocking capacitor. Avoid applying a direct current to the output of ceramic filters.

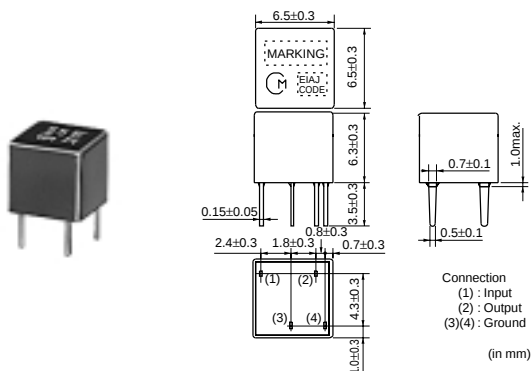
● Plastic Case Miniaturized Type CFULB_A Series



Part Number	Center Frequency (f ₀) (kHz)	Nominal Center Frequency (f _n)	3dB Bandwidth	6dB Bandwidth (kHz)	Stop Bandwidth (kHz)	Stop Band Attenuation (dB)	Insertion Loss (dB)	Ripple (dB)	Input/Output Impedance (ohm)
CFULB455KB2A-B0	455.0 ±2.0kHz	-	-	f _n ±15.0 min.	f _n ±30.0 max. [within 40dB]	27 min.	4.0 max.	3.0 max.	1500
CFULB455KC2A-B0	455.0 ±2.0kHz	-	-	f _n ±12.5 min.	f _n ±24.0 max. [within 40dB]	27 min.	4.0 max.	3.0 max.	1500
CFULB455KD4A-B0	455.0 ±1.5kHz	-	-	f _n ±10.0 min.	f _n ±20.0 max. [within 40dB]	27 min.	4.0 max.	2.0 max.	1500
CFULB455KE4A-B0	455.0 ±1.5kHz	-	-	f _n ±7.5 min.	f _n ±15.0 max. [within 40dB]	27 min.	6.0 max.	1.5 max.	1500
CFULB455KF4A-B0	455.0 ±1.5kHz	-	-	f _n ±6.0 min.	f _n ±12.5 max. [within 40dB]	27 min.	6.0 max.	1.5 max.	2000
CFULB455KG1A-B0	455.0 ±1.0kHz	-	-	f _n ±4.5 min.	f _n ±10.0 max. [within 40dB]	25 min.	6.0 max.	1.5 max.	2000
CFULB455KH1A-B0	455.0 ±1.0kHz	-	-	f _n ±3.0 min.	f _n ±9.0 max. [within 40dB]	35 min.	6.0 max.	1.5 max.	2000
CFULB455KJ1A-B0	455.0 ±1.0kHz	-	-	f _n ±2.0 min.	f _n ±7.5 max. [within 40dB]	35 min.	6.0 max.	1.5 max.	2000

For safety purposes, connect the output of filters to the IF amplifier through a DC blocking capacitor. Avoid applying a direct current to the output of ceramic filters.
The order quantity should be an integral multiple of the Minimum Quantity shown in the beginning of this catalog.

● Plastic Case Group Delay Flat Type Miniaturized Type CFULB_Y Series



Part Number	Center Frequency (f ₀) (kHz)	Nominal Center Frequency (f _n)	3dB Bandwidth	6dB Bandwidth (kHz)	Stop Bandwidth (kHz)	Stop Band Attenuation (dB)	Insertion Loss (dB)	Ripple (dB)	Input/Output Impedance (ohm)
CFULB455KB4Y-B0	455.0 ±1.5kHz	-	-	f _n ±15.0 min.	f _n ±35.0 max. [within 40dB]	25 min.	5.0 max.	1.0 max.	1500
CFULB455KC4Y-B0	455.0 ±1.5kHz	-	-	f _n ±12.5 min.	f _n ±30.0 max. [within 40dB]	25 min.	6.0 max.	1.0 max.	1500
CFULB455KD1Y-B0	455.0 ±1.0kHz	-	-	f _n ±10.0 min.	f _n ±25.0 max. [within 40dB]	23 min.	7.0 max.	1.0 max.	1500

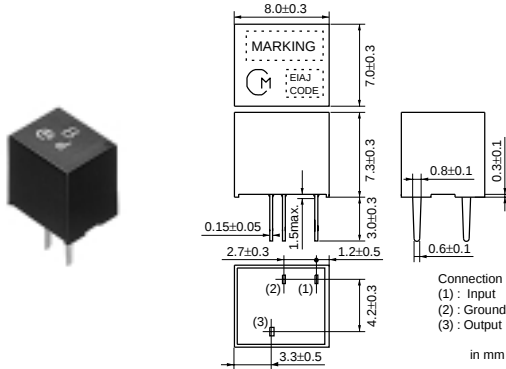
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Part Number	Center Frequency (fo) (kHz)	Nominal Center Frequency (fn)	3dB Bandwidth	6dB Bandwidth (kHz)	Stop Bandwidth (kHz)	Stop Band Attenuation (dB)	Insertion Loss (dB)	Ripple (dB)	Input/Output Impedance (ohm)
CFULB455KE1Y-B0	455.0 ±1.0kHz	-	-	fn±7.5 min.	fn±20.0 max. [within 40dB]	23 min.	8.0 max.	1.0 max.	1500
CFULB455KF1Y-B0	455.0 ±1.0kHz	-	-	fn±6.0 min.	fn±17.5 max. [within 40dB]	23 min.	9.0 max.	1.0 max.	2000
CFULB455KG1Y-B0	455.0 ±1.0kHz	-	-	fn±4.5 min.	fn±15.0 max. [within 40dB]	23 min.	10.0 max.	1.0 max.	2000

For safety purposes, connect the output of filters to the IF amplifier through a DC blocking capacitor. Avoid applying a direct current to the output of ceramic filters.
The order quantity should be an integral multiple of the Minimum Quantity shown in the beginning of this catalog.

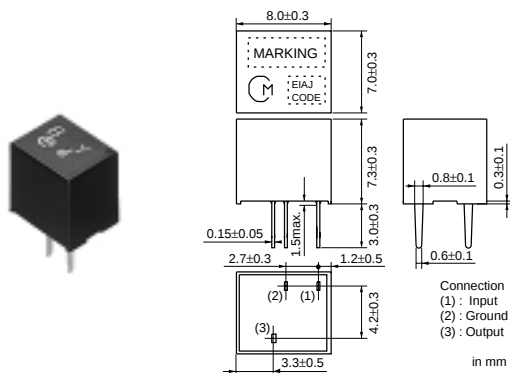
● Plastic Case Miniaturized Type CFULA_A Series



Part Number	Center Frequency (fo) (kHz)	Nominal Center Frequency (fn)	3dB Bandwidth	6dB Bandwidth (kHz)	Stop Bandwidth (kHz)	Stop Band Attenuation (dB)	Insertion Loss (dB)	Ripple (dB)	Input/Output Impedance (ohm)
CFULA455KB2A-B0	455.0 ±2.0kHz	-	-	fn±15.0 min.	fn±30.0 max. [within 40dB]	27 min.	4.0 max.	3.0 max.	1500
CFULA455KC2A-B0	455.0 ±2.0kHz	-	-	fn±12.5 min.	fn±24.0 max. [within 40dB]	27 min.	4.0 max.	3.0 max.	1500
CFULA455KD4A-B0	455.0 ±1.5kHz	-	-	fn±10.0 min.	fn±20.0 max. [within 40dB]	27 min.	4.0 max.	2.0 max.	1500
CFULA455KE4A-B0	455.0 ±1.5kHz	-	-	fn±7.5 min.	fn±15.0 max. [within 40dB]	27 min.	6.0 min.	1.5 max.	1500
CFULA455KF4A-B0	455.0 ±1.5kHz	-	-	fn±6.0 min.	fn±12.5 max. [within 40dB]	27 min.	6.0 max.	1.5 max.	2000
CFULA455KG1A-B0	455.0 ±1.0kHz	-	-	fn±4.5 min.	fn±10.0 max. [within 40dB]	25 min.	6.0 max.	1.5 max.	2000
CFULA455KH1A-B0	455.0 ±1.0kHz	-	-	fn±3.0 min.	fn±9.0 max. [within 40dB]	35 min.	6.0 max.	3.0 max.	2000

For safety purposes, connect the output of filters to the IF amplifier through a DC blocking capacitor. Avoid applying a direct current to the output of ceramic filters.
The order quantity should be an integral multiple of the Minimum Quantity shown in the beginning of this catalog.

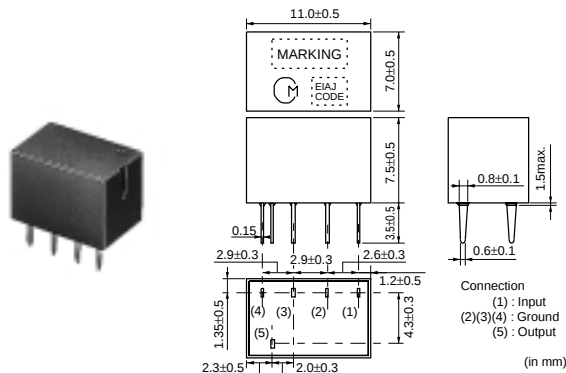
● Plastic Case Group Delay Flat Type CFULA_Y Series



Part Number	Center Frequency (fo) (kHz)	Nominal Center Frequency (fn)	3dB Bandwidth	6dB Bandwidth (kHz)	Stop Bandwidth (kHz)	Stop Band Attenuation (dB)	Insertion Loss (dB)	Ripple (dB)	Input/Output Impedance (ohm)
CFULA455KB4Y-B0	455.0 ±1.5kHz	-	-	fn±15.0 min.	fn±35.0 max. [within 40dB]	25 min.	5.0 max.	1.0 max.	1500
CFULA455KC4Y-B0	455.0 ±1.5kHz	-	-	fn±12.5 min.	fn±30.0 max. [within 40dB]	25 min.	6.0 max.	1.0 max.	1500
CFULA455KD1Y-B0	455.0 ±1.0kHz	-	-	fn±10.0 min.	fn±25.0 max. [within 40dB]	23 min.	7.0 max.	1.0 max.	1500
CFULA455KE1Y-B0	455.0 ±1.0kHz	-	-	fn±7.5 min.	fn±20.0 max. [within 40dB]	23 min.	8.0 max.	1.0 max.	1500
CFULA455KF1Y-B0	455.0 ±1.0kHz	-	-	fn±6.0 min.	fn±17.5 max. [within 40dB]	23 min.	9.0 max.	1.0 max.	2000
CFULA455KG1Y-B0	455.0 ±1.0kHz	-	-	fn±4.5 min.	fn±15.0 max. [within 40dB]	23 min.	10.0 max.	1.0 max.	2000

For safety purposes, connect the output of filters to the IF amplifier through a DC blocking capacitor. Avoid applying a direct current to the output of ceramic filters.
The order quantity should be an integral multiple of the Minimum Quantity shown in the beginning of this catalog.

● Plastic Case Miniaturized Type CFWLA_A Series



Part Number	Center Frequency (fo)	Nominal Center Frequency (fn) (kHz)	3dB Bandwidth	6dB Bandwidth (kHz)	Stop Bandwidth (kHz)	Stop Band Attenuation (dB)	Insertion Loss (dB)	Ripple (dB)	Input/Output Impedance (ohm)
CFWLA455KBFA-B0	-	455.0	-	fn±15.0 min.	fn±30.0 max. [within 50dB]	35 min.	4.0 max.	3.0 max.	1500
CFWLA455KCFA-B0	-	455.0	-	fn±12.5 min.	fn±24.0 max. [within 50dB]	35 min.	4.0 max.	3.0 max.	1500
CFWLA455KDFA-B0	-	455.0	-	fn±10.0 min.	fn±20.0 max. [within 50dB]	35 min.	4.0 max.	3.0 max.	1500
CFWLA455KEFA-B0	-	455.0	-	fn±7.5 min.	fn±15.0 max. [within 50dB]	35 min.	6.0 max.	3.0 max.	1500
CFWLA455KFFA-B0	-	455.0	-	fn±6.0 min.	fn±12.5 max. [within 50dB]	35 min.	6.0 max.	3.0 max.	2000

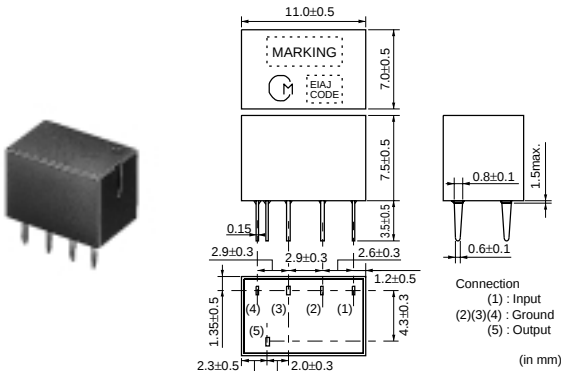
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Part Number	Center Frequency (fo)	Nominal Center Frequency (fn)	3dB Bandwidth	6dB Bandwidth (kHz)	Stop Bandwidth (kHz)	Stop Band Attenuation (dB)	Insertion Loss (dB)	Ripple (dB)	Input/Output Impedance (ohm)
CFWLA455KGFA-B0	-	455.0	-	fn±4.5 min.	fn±10.0 max. [within 50dB]	35 min.	6.0 max.	2.0 max.	2000
CFWLA455KHFA-B0	-	455.0	-	fn±3.0 min.	fn±9.0 max. [within 50dB]	60 min.	6.0 max.	2.0 max.	2000
CFWLA455KJFA-B0	-	455.0	-	fn±2.0 min.	fn±7.5 max. [within 50dB]	60 min.	7.0 max.	2.0 max.	2000

For safety purposes, connect the output of filters to the IF amplifier through a DC blocking capacitor. Avoid applying a direct current to the output of ceramic filters.
The order quantity should be an integral multiple of the Minimum Quantity shown in the beginning of this catalog.

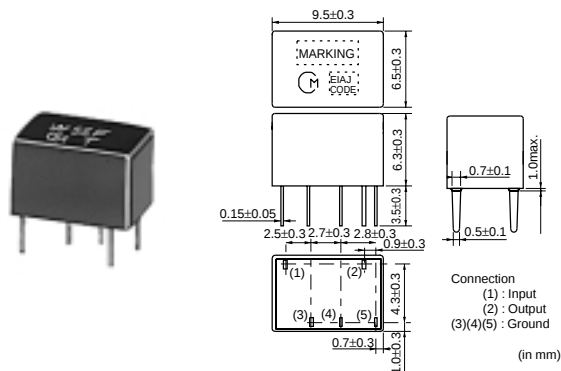
● Plastic Case Group Delay Flat Type CFWLA_Y Series



Part Number	Center Frequency (fo)	Nominal Center Frequency (fn)	3dB Bandwidth	6dB Bandwidth (kHz)	Stop Bandwidth (kHz)	Stop Band Attenuation (dB)	Insertion Loss (dB)	Ripple (dB)	Input/Output Impedance (ohm)
CFWLA455KB4Y-B0	455.0 ±1.5kHz	-	-	fn±15.0 min.	fn±35.0 max. [within 50dB]	40 min.	6.0 max.	1.0 max.	1500
CFWLA455KC4Y-B0	455.0 ±1.5kHz	-	-	fn±12.5 min.	fn±30.0 max. [within 50dB]	40 min.	7.0 max.	1.0 max.	1500
CFWLA455KD1Y-B0	455.0 ±1.0kHz	-	-	fn±10.0 min.	fn±25.0 max. [within 50dB]	40 min.	8.0 max.	1.0 max.	1500
CFWLA455KE1Y-B0	455.0 ±1.0kHz	-	-	fn±7.5 min.	fn±20.0 max. [within 50dB]	40 min.	9.0 max.	1.0 max.	1500
CFWLA455KF1Y-B0	455.0 ±1.0kHz	-	-	fn±6.0 min.	fn±17.5 max. [within 50dB]	40 min.	10.0 max.	1.0 max.	2000
CFWLA455KG1Y-B0	455.0 ±1.0kHz	-	-	fn±4.5 min.	fn±15.0 max. [within 50dB]	40 min.	11.0 max.	1.0 max.	2000

For safety purposes, connect the output of filters to the IF amplifier through a DC blocking capacitor. Avoid applying a direct current to the output of ceramic filters.
The order quantity should be an integral multiple of the Minimum Quantity shown in the beginning of this catalog.

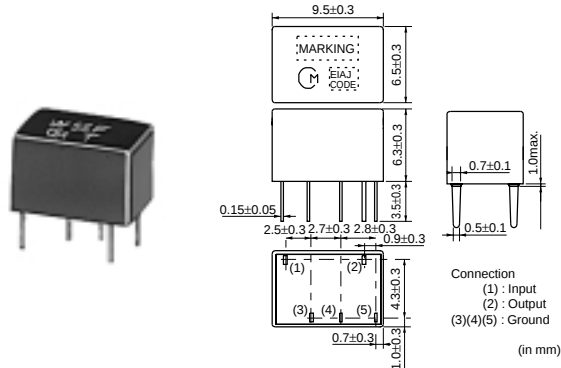
● Plastic Case General Use CFWLB_A Series



Part Number	Center Frequency (fo) (kHz)	Nominal Center Frequency (fn) (kHz)	3dB Bandwidth (kHz)	6dB Bandwidth (kHz)	Stop Bandwidth (kHz)	Stop Band Attenuation (dB)	Insertion Loss (dB)	Ripple (dB)	Input/Output Impedance (ohm)
CFWLB455KBFA-B0	-	455.0	-	fn±15.0 min.	fn±30.0 max. [within 50dB]	35 min.	4.0 max.	3.0 max.	1500
CFWLB455KCFA-B0	-	455.0	-	fn±12.5 min.	fn±24.0 max. [within 50dB]	35 min.	4.0 max.	3.0 max.	1500
CFWLB455KDFA-B0	-	455.0	-	fn±10.0 min.	fn±20.0 max. [within 50dB]	35 min.	4.0 max.	3.0 max.	1500
CFWLB455KEFA-B0	-	455.0	-	fn±7.5 min.	fn±15.0 max. [within 50dB]	35 min.	6.0 max.	3.0 max.	1500
CFWLB455KEFA004-B0	-	455.0	fn±6.0 min.	fn±7.5 min.	fn±15.0 max. [within 60dB]	60 min.	5.0 max.	3.0 max.	1500
CFWLB455KFFA-B0	-	455.0	-	fn±6.0 min.	fn±12.5 max. [within 50dB]	35 min.	6.0 max.	3.0 max.	2000
CFWLB455KGFA-B0	-	455.0	-	fn±4.5 min.	fn±10.0 max. [within 50dB]	35 min.	6.0 max.	2.0 max.	2000
CFWLB455KHFA-B0	-	455.0	-	fn±3.0 min.	fn±9.0 max. [within 50dB]	55 min.	6.0 max.	2.0 max.	2000
CFWLB455KJFA-B0	-	455.0	-	fn±2.0 min.	fn±7.0 max. [within 50dB]	55 min.	7.0 max.	2.0 max.	2000

For safety purposes, connect the output of filters to the IF amplifier through a DC blocking capacitor. Avoid applying a direct current to the output of ceramic filters.
The order quantity should be an integral multiple of the Minimum Quantity shown in the beginning of this catalog.

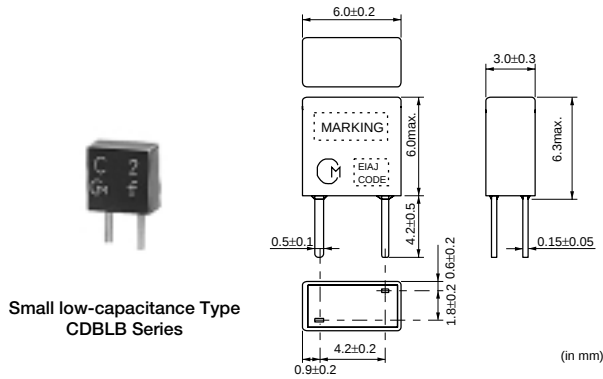
● Plastic Case Group Delay Flat Type CFWLB_Y Series



Part Number	Center Frequency (fo) (kHz)	Nominal Center Frequency (fn) (kHz)	3dB Bandwidth (kHz)	6dB Bandwidth (kHz)	Stop Bandwidth (kHz)	Stop Band Attenuation (dB)	Insertion Loss (dB)	Ripple (dB)	Input/Output Impedance (ohm)
CFWLB455KB4Y-B0	455.0 ±1.5kHz	-	-	fn±15.0 min.	fn±35.0 max. [within 50dB]	40 min.	6.0 max.	1.0 max.	1500
CFWLB455KC4Y-B0	455.0 ±1.5kHz	-	-	fn±12.5 min.	fn±30.0 max. [within 50dB]	40 min.	7.0 max.	1.0 max.	1500
CFWLB455KD1Y-B0	455.0 ±1.0kHz	-	-	fn±10.0 min.	fn±25.0 max. [within 50dB]	40 min.	8.0 max.	1.0 max.	1500
CFWLB455KE1Y-B0	455.0 ±1.0kHz	-	-	fn±7.5 min.	fn±20.0 max. [within 50dB]	40 min.	9.0 max.	1.0 max.	1500
CFWLB455KF1Y-B0	455.0 ±1.0kHz	-	-	fn±6.0 min.	fn±17.5 max. [within 50dB]	40 min.	10.0 max.	1.0 max.	2000
CFWLB455KG1Y-B0	455.0 ±1.0kHz	-	-	fn±4.5 min.	fn±15.0 max. [within 50dB]	40 min.	11.0 max.	1.0 max.	2000

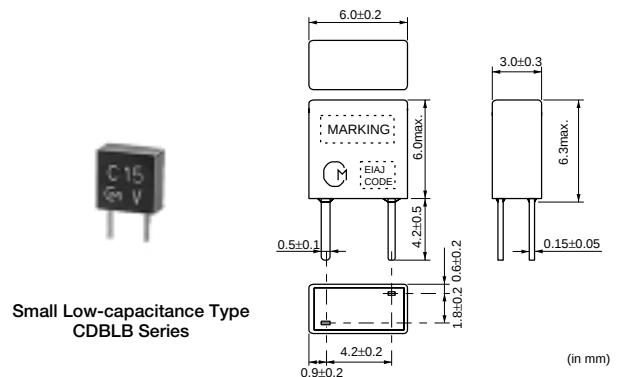
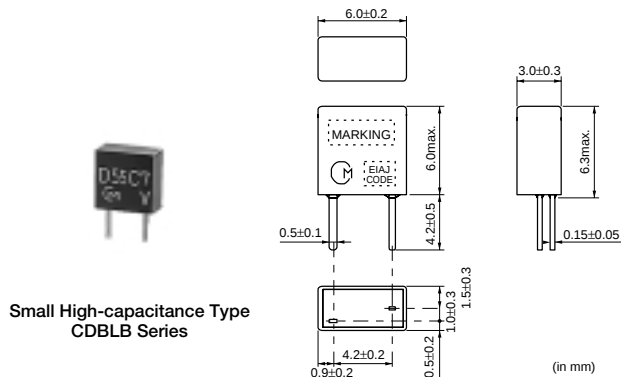
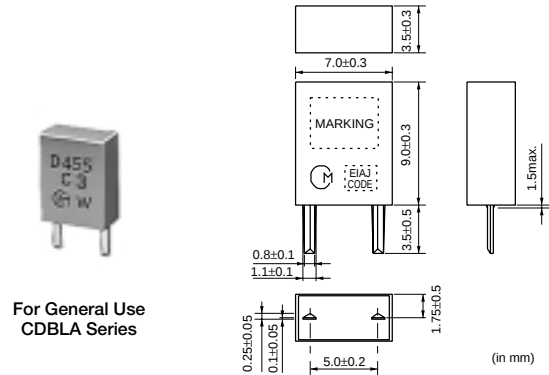
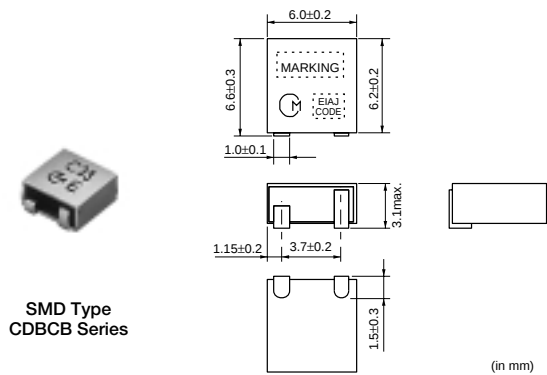
For safety purposes, connect the output of filters to the IF amplifier through a DC blocking capacitor. Avoid applying a direct current to the output of ceramic filters.
The order quantity should be an integral multiple of the Minimum Quantity shown in the beginning of this catalog.

Specified by Impedance Characteristics 1



Part Number	Center Frequency (fn) (kHz)	Inlination of Impedance Curve(1)	Inlination of Impedance Curve(2)	Capacitance (C)	IC
CDBLB455KCAX02-B0	455	447.0±1.5kHz(at Z =2.05kohm)	463.0±1.5kHz(at Z =10.0kohm)	140pF±20%	TA8104F
CDBLB455KCAX31-B0	455	447.0±1.5kHz(at Z =2.05kohm)	463.0±1.5kHz(at Z =10.0kohm)	140pF±20%	TA31141

Specified by Impedance Characteristics 2

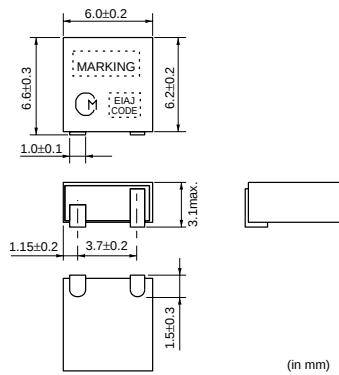


Part Number	Center Frequency (fn) (kHz)	Antiresonant Frequency (Fa)	Fa-Fr	Resonant Resistance (R)	Capacitance (C)	IC
CDBC455KCAX33-R0	455	458.0±1.5kHz	42±4.0kHz	300ohm max.	280pF±20%	CXA1474
CDBLA455KCAY03-B0	-	455.0±1.5kHz	48±5.0kHz	70ohm max.	600pF±20%	CXA1184
CDBLB455KCAY03-B0	455	455.0±1.5kHz	46±5.0kHz	70ohm max.	550pF±20%	CXA1184M
CDBLB455KCAX15-B0	455	463.5±1.0kHz	43±2.0kHz	300ohm max.	140pF±20%	CXA1183M
CDBLB455KCAX25-B0	455	465.0±1.5kHz	45±4.0kHz	300ohm max.	135pF±20%	CXA1484
CDBLB455KCAX33-B0	455	465.0±1.5kHz	45±4.0kHz	300ohm max.	135pF±20%	CXA1474

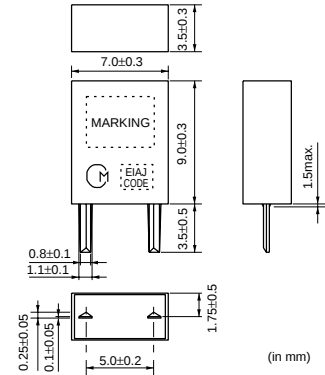
● Specified by Recovered Audio Characteristics



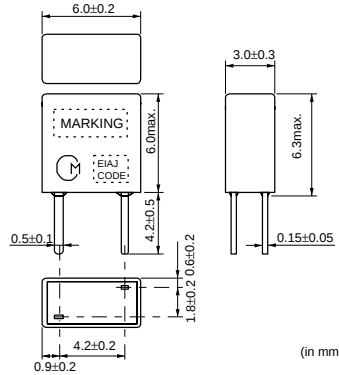
SMD Type
CDBCB Series



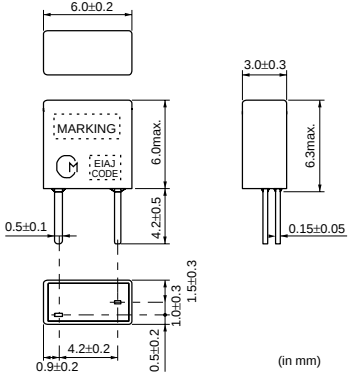
For General Use
CDBLA Series



Small Low-capacitance Type
CDBLB Series



Small High-capacitance Type
CDBLB Series



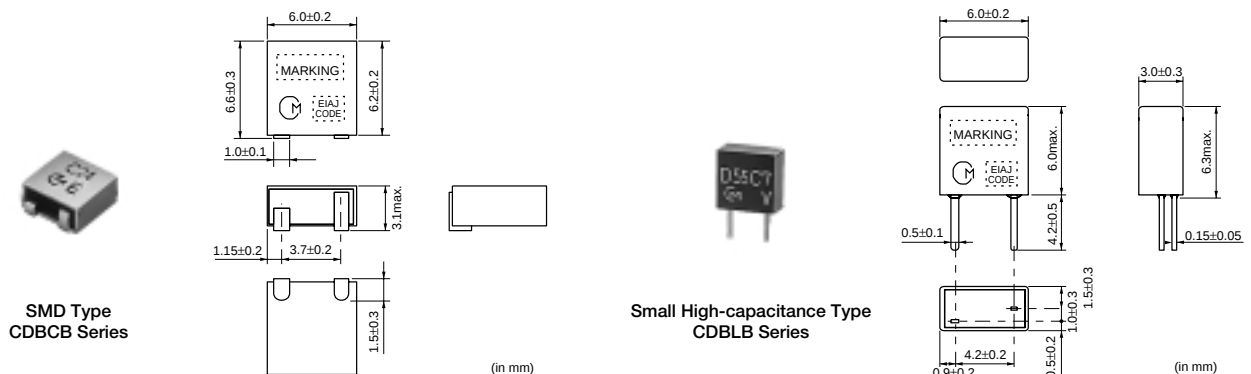
Part Number	Center Frequency (fn) (kHz)	Recovered Audio 3dB BW (kHz)	Recovered Audio Output (mV)	Distortion (at fn) (%)	IC
CDBCB455KCAY07-R0	455	fn±4.0 min.	350 ±60 mV	3.0 max.	MC3357
CDBCB455KCAY09-R0	455	fn±4.0 min.	120 ±40 mV	1.5 max.	NE604N
CDBCB455KCAY13-R0	455	fn±4.0 min.	330 ±50 mV	4.0 max.	CXA1003BM
CDBCB455KCAY16-R0	455	fn±4.0 min.	175 ±40 mV	2.0 max.	MC3372
CDBCB455KCAY21-R0	455	fn±4.0 min.	55 ±20 mV	2.0 max.	TA31132
CDBCB455KCAY24-R0	455	fn±4.0 min.	100 ±40 mV	2.0 max.	TA31136
CDBCB455KCAY27-R0	455	fn±4.0 min.	90 ±30 mV	2.0 max.	TK10487
CDBCB455KCAY28-R0	455	fn±4.0 min.	40 ±20 mV	3.0 max.	TA31142F
CDBCB455KCAY29-R0	455	fn±4.0 min.	100 ±30 mV	2.5 max.	NE605
CDBCB455KCAY32-R0	455	fn±4.0 min.	40 ±20 mV	3.0 max.	TA31143
CDBCB455KCAY35-R0	455	fn±4.0 min.	100 ±40 mV	2.5 max.	TK10930
CDBCB455KCAY40-R0	455	fn±4.0 min.	40 ±20 mV	3.5 max.	TA31145
CDBCB455KCAY49-R0	455	±4.0 min.	45 ±10 mV	3.0 max.	MC3361
CDBCB455KCAY50-R0	455	±4.0 min.	64 ±6.4 mV	4.0 max.	CXA3117N
CDBCB455KCLX36-R0	455	fn±13.0 min.	90 ±30 mV	2.5 max.	NE(SA)606/NE(SA)616
CDBCB455KCLX39-R0	455	±11.0 min.	130 ±20 mV	2.5 max.	NE607/NE617
CDBCB455KCLY13-R0	455	fn±13.0 min.	120 ±30 mV	1.5 max.	CXA1003BM
CDBCB455KCLY21-R0	455	fn±11.0 min.	75 ±25 mV	2.5 max.	TA31132
CDBLA455KCAY07-B0	455	fn±4.0 min.	340 ±60 mV	2.5 max.	MC3357
CDBLA455KCAY09-B0	455	fn±5.0 min.	100 min.	1.5 max.	NE604N
CDBLA455KCAY13A-B0	455	fn±4.0 min.	350 ±50 mV	3.0 max.	CXA1003BM
CDBLA455KCAY16-B0	455	fn±4.0 min.	185 ±40 mV	2.0 max.	MC3372
CDBLA455KCAY24-B0	455	fn±4.0 min.	100 ±40 mV	2.0 max.	TA31136
CDBLA455KCAY28-B0	455	fn±4.0 min.	40 ±20 mV	3.0 max.	TA31142
CDBLA455KCAY34-B0	455	fn±4.0 min.	65 ±20 mV	2.5 max.	MC13136
CDBLA455KCAY42-B0	455	fn±4.0 min.	40 ±15 mV	3.0 max.	TK14590/TK14591
CDBLA455KCLY09-B0	455	fn±15.0 min.	70 ±20 mV	1.5 max.	NE604N
CDBLA455KCLY13-B0	455	fn±15.0 min.	110 ±30 mV	1.5 max.	CXA1003BM
CDBLB455KCAY21-B0	455	fn±4.0 min.	55 ±20 mV	2.0 max.	TA31132
CDBLB455KCAY07-B0	455	fn±4.0 min.	340 ±60 mV	3.0 max.	MC3357

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Part Number	Center Frequency (fn) (kHz)	Recovered Audio 3dB BW (kHz)	Recovered Audio Output (mV)	Distortion (at fn) (%)	IC
CDBLB455KCAY13A-B0	455	fn±4.0 min.	350 ±50 mV	3.0 max.	CXA1003BM
CDBLB455KCAY24-B0	455	fn±4.0 min.	100 ±40 mV	2.0 max.	TA31136
CDBLB455KCAY28-B0	455	fn±4.0 min.	40 ±20 mV	3.0 max.	TA31142FN
CDBLB455KCAY32-B0	455	fn±4.0 min.	40 ±20 mV	3.0 max.	TA31143
CDBLB455KCAY34-B0	455	fn±4.0 min.	65 ±20 mV	2.5 max.	MC13136
CDBLB455KCAY40-B0	455	fn±4.0 min.	40 ±20 mV	3.0 max.	TA31145
CDBLB455KCAY42-B0	455	fn±4.0 min.	40 ±15 mV	3.0 max.	TK14590/TK14591
CDBLB455KCAY49-B0	455	fn±4.0 min.	45 ±10 mV	3.0 max.	MC3361
CDBLB455KCAY50-B0	455	fn±4.0 min.	64 ±6.4 mV	4.0 max.	CXA3117N
CDBLB455KCLY09-B0	455	fn±15.0 min.	70 ±20 mV	1.5 max.	NE604N
CDBLB455KCLY13-B0	455	fn±15.0 min.	110 ±30 mV	1.5 max.	CXA1003BM
CDBLB455KCLY21-B0	455	fn±13.0 min.	65 ±20 mV	2.5 max.	TA31132
CDBLB455KCAX16-B0	455	fn±4.0 min.	185 ±40 mV	2.0 max.	MC3372
CDBLB455KCAX18-B0	455	fn±3.0 min.	180 ±40 mV	2.0 max.	MC3371
CDBLB455KCAX36-B0	455	fn±3.5 min.	100 ±25 mV	3.5 max.	NE606/616

Specified by S Curve Characteristics

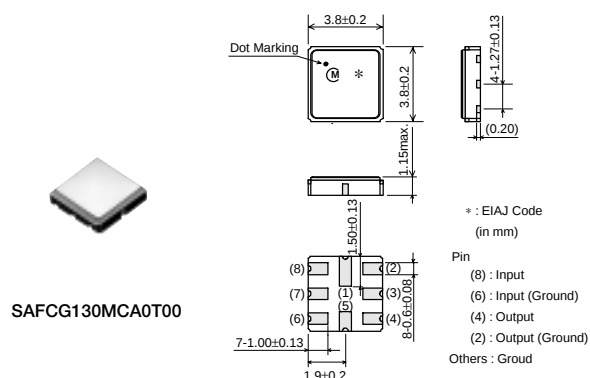


Part Number	Center Frequency (fn) (kHz)	S Curve(1) Output Volt.at fn (mV)	S Curve(2) at fn±4.8kHz and fn-4.8kHz (mV)	IC
CDBC455KCAY54-R0	455	165 ±20mV	170 ±20mV	TA31149
CDBLB455KCAY47-B0	455	140 ±20mV	150 ±15mV	TA31147

for IF

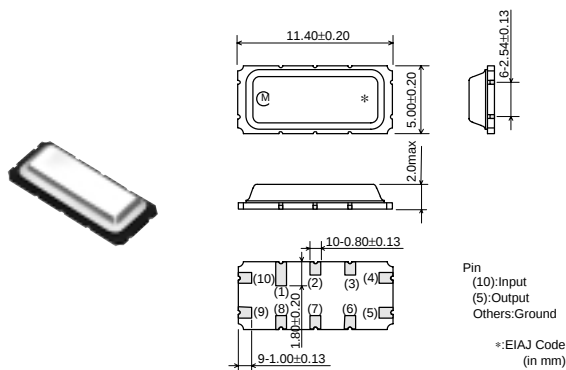
SAW Filters

AMPS/ADC



Part Number	Center Frequency (MHz)	3dB Bandwidth (kHz)	Insertion Loss (dB max./at Minimum Loss Point) (dB)	Ripple (dB max.)	Input/Output Impedance
SAFCG130MCA0T00	130.380	±630 min.	5.5 max. (at fo point)	-	310ohm//1.6μH
SAFCT85M3JB0X00	85.380	±12 min.	5.5 max. (at min. loss point)	1.5 (fo±12kHz)	870ohm//1.8pF
SAFCT85M3JB0X05	85.380	±12 min.	5.5 max. (at min. loss point)	1.5 (fo±12kHz)	870ohm//1.8pF
SAFCU85M3JC0X05	85.380	±13 min.	5.5 max. (at min. loss point)	1.5 (fo±13kHz)	870ohm//1.7pF
SAFCV83M1JA0X00	83.160	±15 min.	5.0 max. (at min. loss point)	1.5 (fo±15kHz)	850ohm//2pF
SAFCV83M1JC0X00	83.160	±15 min.	5.0 max. (at min. loss point)	1.5 (fo±12.5kHz)	850ohm//2pF

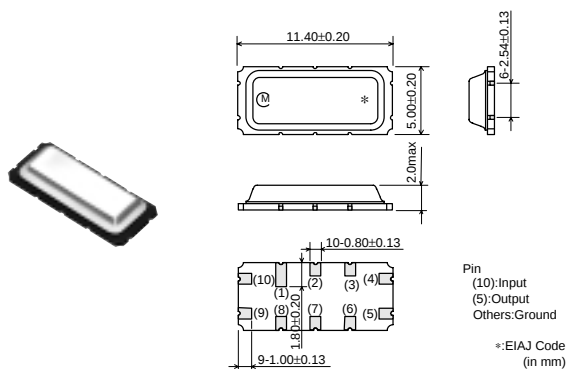
Bluetooth™



Part Number	Center Frequency (MHz)	3dB Bandwidth (kHz)	Insertion Loss (dB max./at Minimum Loss Point) (dB)	Ripple (dB max.)	Input/Output Impedance
SAFUW110MCA1T05	110.000	±500 min.	4.5 max. (at min. loss point)	-	300ohm//1.2μH

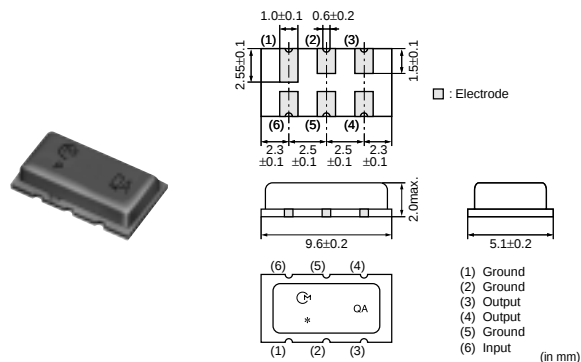
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DECT



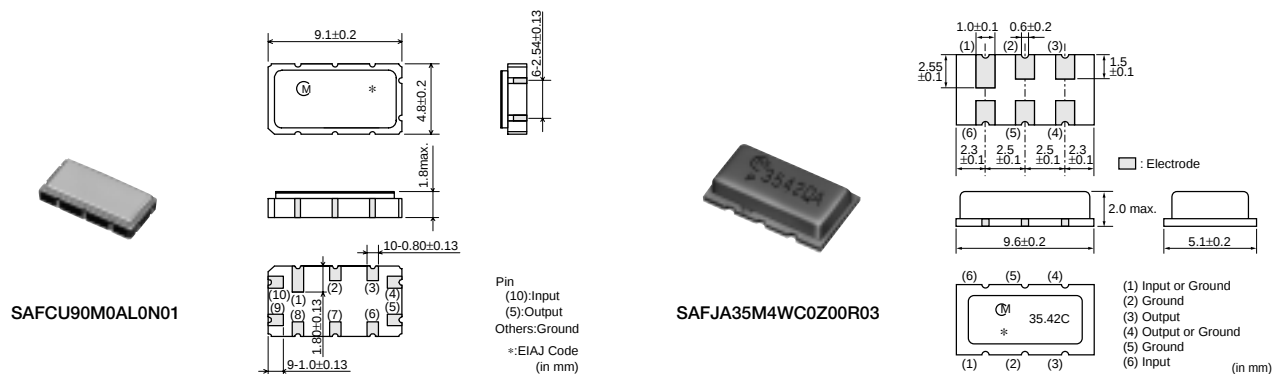
Part Number	Center Frequency (MHz)	3dB Bandwidth (kHz)	Insertion Loss (dB max./at Minimum Loss Point) (dB)	Ripple (dB max.)	Input/Output Impedance
SAFUW110MCA0T00	110.592	±576 min.	4.5 max. (at min. loss point)	-	300ohm//1.2μH

ETCS



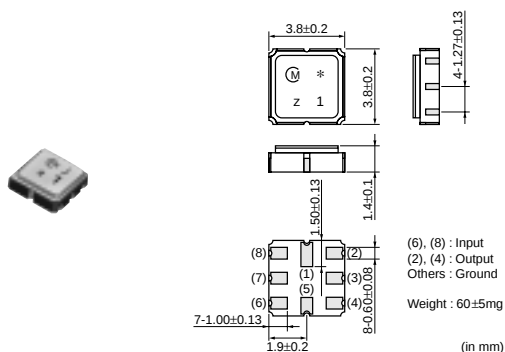
Part Number	Center Frequency (MHz)	3dB Bandwidth (MHz)	Insertion Loss (dB max./at Minimum Loss Point) (dB)	Ripple (dB max.)	Input/Output Impedance
SAFJA43M0WC0Z00R03	43.00 ±0.1MHz (f0)	1.25 min.	21.0 max. (at f0 point)	-	-

GPS



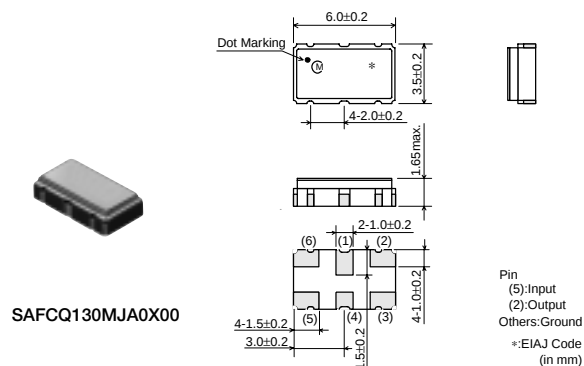
Part Number	Center Frequency (MHz)	3dB Bandwidth (MHz)	Insertion Loss (dB max./at Minimum Loss Point) (dB)	Ripple (dB max.)	Input/Output Impedance (pF)
SAFCU90M0AL0N01	90.0	±1.0 min.	6.5 max. (at f0 point)	2.0 (fo±1MHz)	365ohm/-0.7pF
SAFCU96M0AL0N01	95.7	±1.0 min.	6.5 max. (at f0 point)	2.0 (fo±1MHz)	365ohm/-1.2pF
SAFJA35M4WC0Z00R03	35.42 (fn)	1.90 min. (1dB Bandwidth)	20.5 max. (at fn)	1.6 (within 34.62 to 36.22MHz)	5.1 // 14.3k ohm

GSM



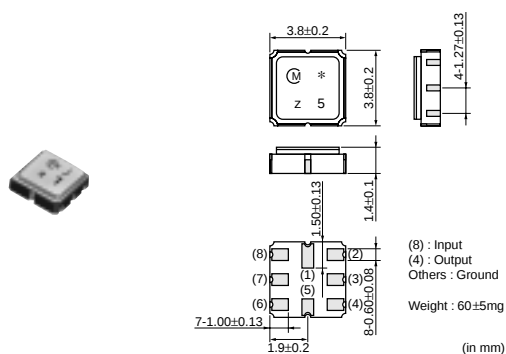
Part Number	Center Frequency (MHz)	3dB Bandwidth (kHz)	Insertion Loss (dB max./at Minimum Loss Point) (dB)	Ripple (dB max.)	Input/Output Impedance (ohm)
SAFCJ225MRA0X01R11	225.000	fo ±80 min.	9.0 max. (at min. loss point)	1.5 [within fo ±80kHz]	700 // -1.3pF

● PDC



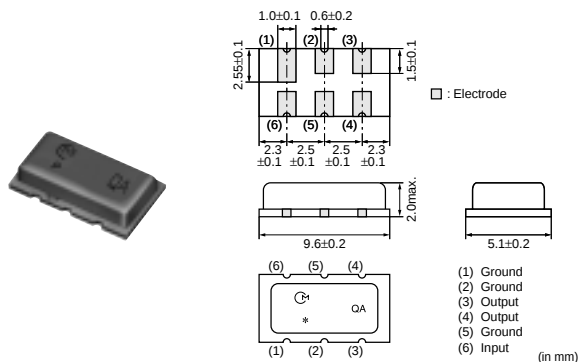
Part Number	Center Frequency (MHz)	3dB Bandwidth (kHz)	Insertion Loss (dB max./at Minimum Loss Point) (dB)	Ripple (dB max.)	Input/Output Impedance
SAFCQ130MJA0X00	130.000	±16 min.	5.5 max. (at min. loss point)	0.5 (fo±10.5kHz)	740ohm// -1.5pF
SAFCQ130MJA1X00	130.050	±16 min.	5.5 max. (at min. loss point)	0.5 (fo±10.5kHz)	740ohm// -1.5pF
SAFCQ130MJC0X00	130.000	±12 min.	6.0 max. (at min. loss point)	0.5 (fo±10.5kHz)	740ohm// -1.0pF
SAFCQ130MJC1X00	130.050	±12 min.	6.0 max. (at min. loss point)	0.5 (fo±10.5kHz)	740ohm// -1.0pF

● PHS



Part Number	Center Frequency (MHz)	3dB Bandwidth (kHz)	Insertion Loss (dB max./at Minimum Loss Point) (dB)	Ripple (dB max.)	Input/Output Impedance (ohm)
SAFCJ243MRA9X01R11	243.950	fo ±130 min.	8.0 max. (at fo point)	1.0 [within fo ±100kHz]	920 // -0.6pF

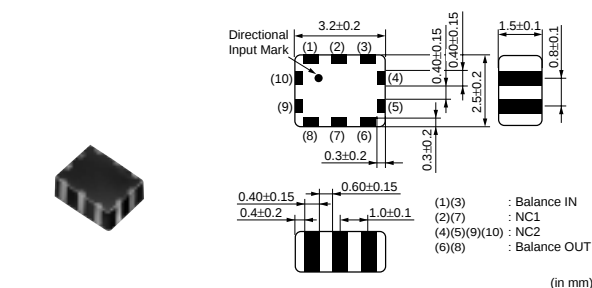
● Wireless LAN



Part Number	Center Frequency (MHz)	3dB Bandwidth (MHz)	Insertion Loss (dB max./at Minimum Loss Point) (dB)	Ripple (dB max.)	Input/Output Impedance
SAFJA40M0WQAZ00R10	40.000	±2.5 min.	21.5 max. (at min. loss point)	-	-

for IF

Chip LC Filters(Balance-balance Type)



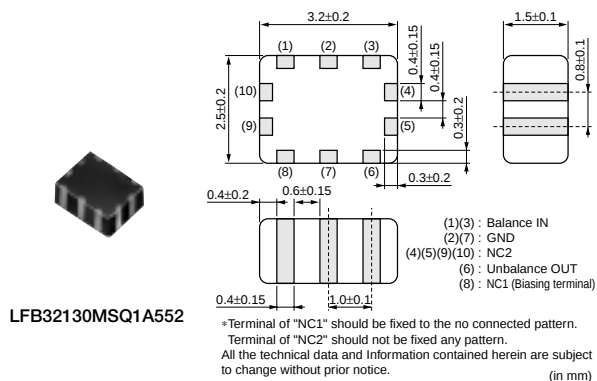
LFB32130MSH3A569

*Terminal of "NC1" should be fixed to the no connected pattern.
Terminal of "NC2" should not be fixed any pattern.
All the technical and information contained herein are subject to change without prior notice.

Part Number	Nominal Center Frequency(fo) (MHz)	Bandwidth(BW) (MHz)	Insertion Loss in BW (dB)	Input Balance Impedance (Differential) (ohm)	Output Balance Impedance (Differential) (ohm)
LFB32130MSH3A569	130.38	fo±0.7	5.0 max. (at 25°C)	1000 (Nominal)	250 (Nominal)
LFB32166MSH2A570	166.85	fo±0.65	5.0 max. (at 25°C)	300 (Nominal)	300 (Nominal)

for IF

Chip LC Filters(Balance-unbalance Type)



LFB32130MSQ1A552

*Terminal of "NC1" should be fixed to the no connected pattern.
Terminal of "NC2" should not be fixed any pattern.
All the technical data and information contained herein are subject to change without prior notice.

Part Number	Nominal Center Frequency(f_0) (MHz)	Bandwidth (BW) (MHz)	Insertion Loss in BW (dB)	Balance Impedance (Differential) (ohm)	Unbalance Impedance (ohm)
LFB32130MSQ1A552	130.38	$f_0 \pm 0.65$	5.5 max. (at 25°C)	1000 (Nominal)	50 (Nominal)
LFB32166MSQ1A527	166.85	$f_0 \pm 0.7$	4.0 max. (at 25°C)	200 (Nominal)	50 (Nominal)