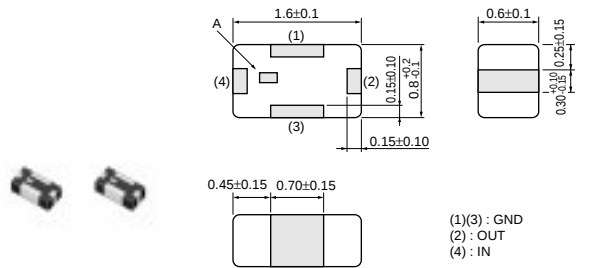


# for RF/Local

## Chip Multilayer LC Filters (BPF)

### ● LFB18/21/2H/31\_SG Series

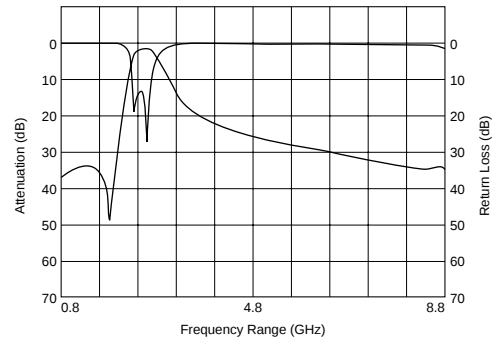


LFB18\_SG Series

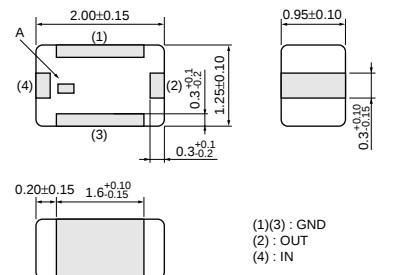
A : Directional Input Mark

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

Frequency Characteristics



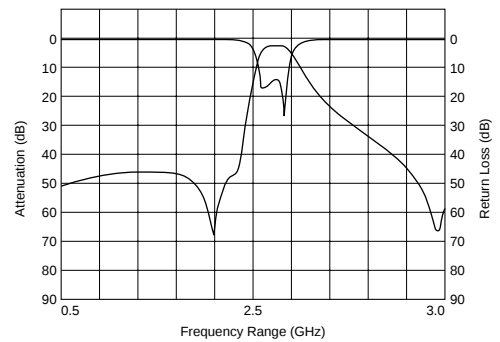
LFB21\_SG Series



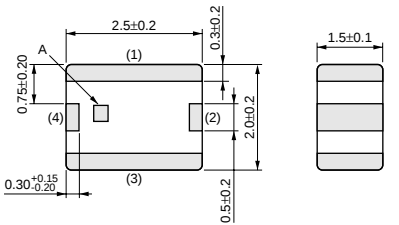
A : Directional Input Mark

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

Frequency Characteristics



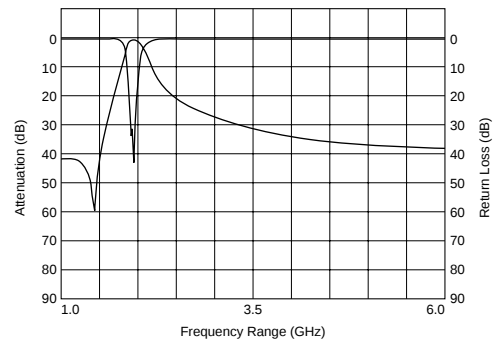
LFB2H\_SG6 Series



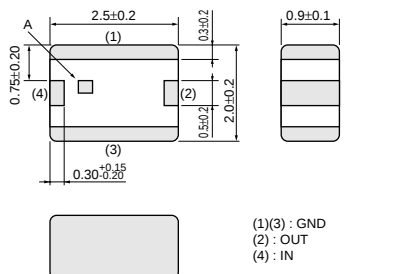
A : Directional Input Mark

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

Frequency Characteristics



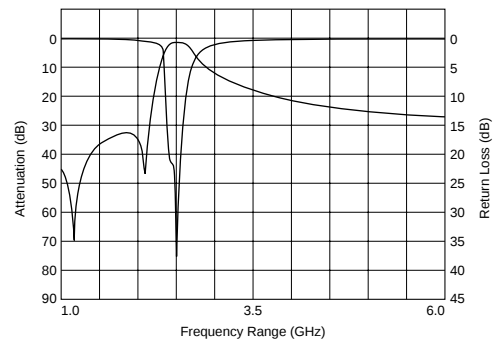
LFB2H\_SG7 Series



A : Directional Input Mark

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

The Characteristics of Spurious

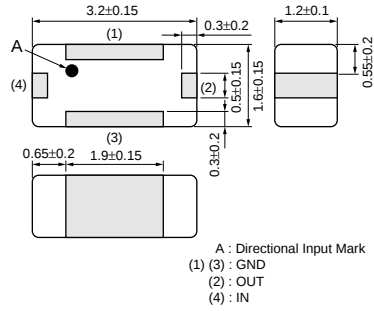


Continued on the following page.

Continued from the preceding page.

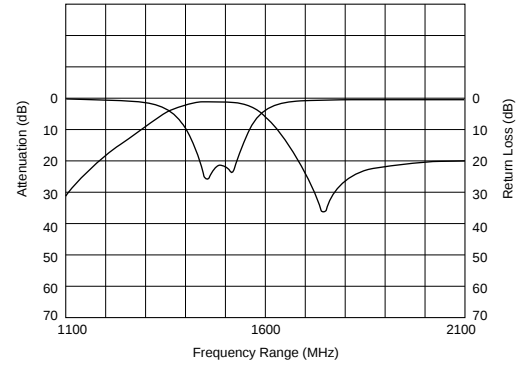


LFB31\_SG1 Series

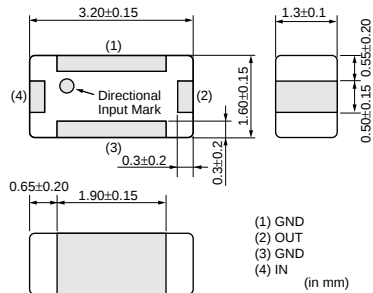


All the technical data and information contained herein are subject to change without prior notice.  
(in mm)

Frequency Characteristics

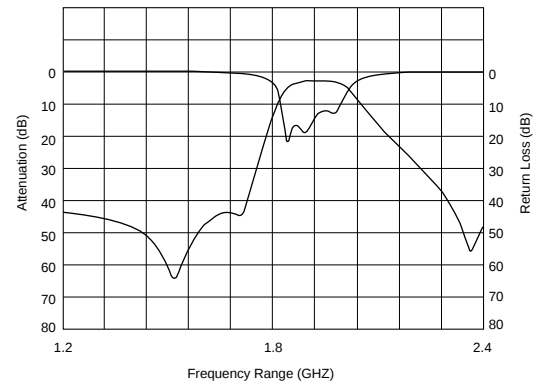


LFB31\_SG2 Series

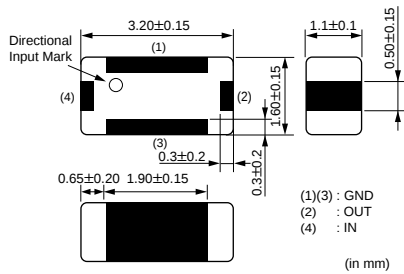


All the technical data and information contained herein are subject to change without prior notice.

Frequency Characteristics

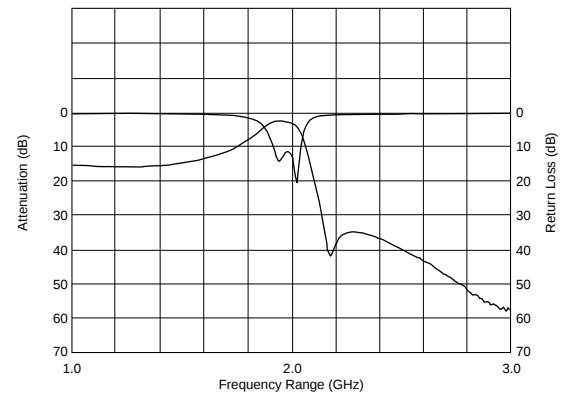


LFB31\_SG3 Series

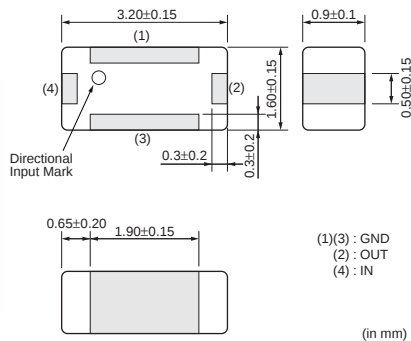


All the technical and information contained herein are subject to change without prior notice.

Frequency Characteristics

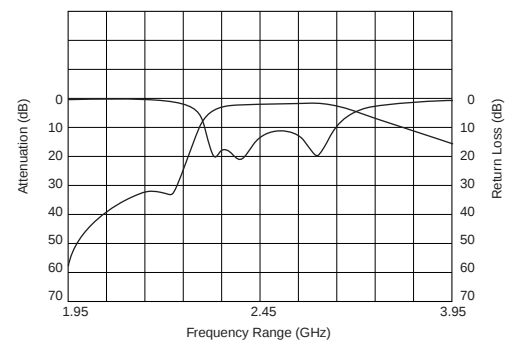


LFB31\_SG7 Series



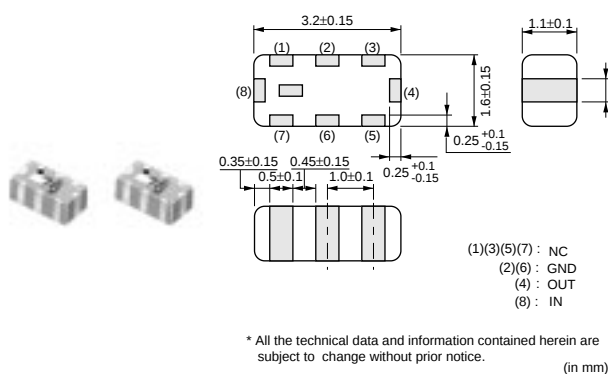
All the technical data and information contained herein are subject to change without prior notice.

Frequency Characteristics

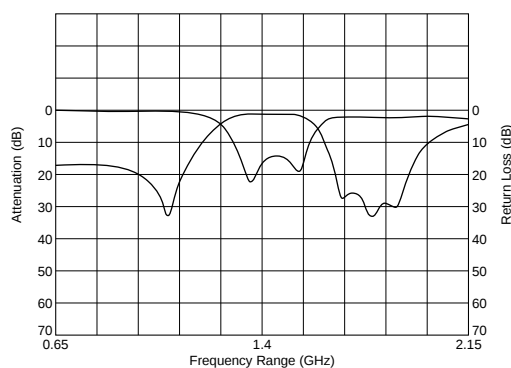


| Part Number      | Nominal Center Frequency (fo) (MHz) | Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Attenuation (Absolute Value) I) (dB) | Attenuation (Absolute Value) II) (dB) |
|------------------|-------------------------------------|----------------------|---------------------------|--------------------------------------|---------------------------------------|
| LFB182G45SG9A246 | 2450                                | fo±50                | 2.2 max. (at 25°C)        | 24.5 min. at 880~960MHz              | 12.5 min. at 1710~1990MHz             |
| LFB185G78SGAB713 | 5787.5                              | fo±62.5              | 2.2 max. (at 25°C)        | 16.5 min. at 4800MHz                 | 23.5 min. at 11450~11700MHz           |
| LFB211G90SG8B704 | 1906.5                              | fo±13.5              | 3.0 max. (at 25°C)        | 20 min. at 1660.5~1686.3MHz          | 11 min. at 2126.8~2152.6MHz           |
| LFB212G45SG8A127 | 2450                                | fo±50                | 1.5 max. (at 25°C)        | 25 min. at 1200~1300MHz              | 10.0 min. at 2000MHz                  |
| LFB212G45SG8A166 | 2450                                | fo±50                | 1.4 max. (at 25°C)        | 30 min. at 880~915MHz                | 30 min. at 1710~1910MHz               |
| LFB212G45SG8A192 | 2450                                | fo±50                | 2.6 max. (at 25°C)        | 40 min. at 880~960MHz                | 38 min. at 1710~1990MHz               |
| LFB215G12SG8A178 | 5125                                | fo±225               | 1.5 max. (at 25°C)        | 25 min. at 4200MHz                   | 17 min. at 2x(fo±225)MHz              |
| LFB215G12SG8A183 | 5125                                | fo±225               | 1.5 max. (at 25°C)        | 10.0 min. at 4250MHz                 | 10.0 min. at 5900MHz                  |
| LFB215G25SG8A144 | 5250                                | fo±100.0             | 1.5 max. (at 25°C)        | 30 min. at 3450MHz                   | -                                     |
| LFB215G37SG8A180 | 5375                                | fo±475               | 1.8 max. (at 25°C)        | 29.5 min. at 500~4000MHz             | 34.5 min. at 3450MHz                  |
| LFB215G37SG8A185 | 5375                                | fo±475               | 2.2 max. (at 25°C)        | 40 min. at 340~1195MHz               | 21 min. at 2140~3580MHz               |
| LFB215G51SG8A132 | 5512                                | fo±363               | 1.9 max. (at 25°C)        | 30 min. at 500~4000MHz               | 20 min. at 4600MHz                    |
| LFB215G51SG8A154 | 5512                                | fo±363               | 1.5 max. (at 25°C)        | 30 min. at 500~4000MHz               | 20 min. at 4600MHz                    |
| LFB215G78SG8A170 | 5787.5                              | fo±62.5              | 2.2 max. (at 25°C)        | 35 min. at 3275~3400MHz              | 37 min. at 2x(fo±62.5)MHz             |
| LFB2H1G90SG6A157 | 1906.5                              | fo±13.5              | 1.5 max. (at 25°C)        | 14 min. at 1687MHz                   | 6 min. at 2126MHz                     |
| LFB2H2G45SG7A134 | 2450                                | fo±50                | 1.7 max. (at 25°C)        | 25 min. at 1750MHz                   | 25 min. at 2100MHz                    |
| LFB2H2G45SG7A135 | 2450                                | fo±50                | 2.7 max. (at 25°C)        | 40 min. at 880~915MHz                | 40 min. at 1710~1950MHz               |
| LFB2H2G45SG7A158 | 2450                                | fo±50                | 1.2 max. (at 25°C)        | 30 min. at 880~915MHz                | 30 min. at 1710~1785MHz               |
| LFB2H2G45SG7A159 | 2450                                | fo±50                | 2.1 max. (at 25°C)        | 45 min. at 880~915MHz                | 48 min. at 1710~1990MHz               |
| LFB2H2G45SG7A204 | 2450                                | fo±50                | 3 max. (at 25°C)          | 45 min. at 880~915MHz                | 27 min. at 1710~1990MHz               |
| LFB2H5G78SG7A175 | 5787.5                              | fo±62.5              | 2.5 max. (at 25°C)        | 51.5 min. at 902~928MHz              | 41 min. at 3919~4044MHz               |
| LFB311G48SG1-985 | 1489                                | fo±12.0              | 1.5 max. (at 25°C)        | 25 min. at (fo±12.0)+260MHz          | 28 min. at 1749MHz                    |
| LFB311G90SG1-799 | 1906.5                              | fo +24.5/-13.5MHz    | 2.5 max. (at 25°C)        | 40 min. at 1397.05~1422.85MHz        | 35 min. at 1645.5~1671.3MHz           |
| LFB311G90SG2-797 | 1906.5                              | fo±13.5              | 2.7 max. (at 25°C)        | 40 min. at 1427~1454MHz              | 35 min. at 1660~1687MHz               |
| LFB311G95SG3A564 | 1950                                | fo±30                | 3.5 max. (at 25°C)        | 20 min. at 2110~2170MHz              | 25 min. at 2490~2550MHz               |
| LFB312G45SG2A509 | 2450                                | fo±50                | 2 max. (at 25°C)          | 38 min. at 902~928MHz                | 15 min. at 2100~2200MHz               |
| LFB312G45SG7A572 | 2450                                | fo±50                | 2.5 max. (at 25°C)        | 37 min. at 902~928MHz                | 20 min. at 2100~2200MHz               |

## ● LFB31\_SL Series (1206)

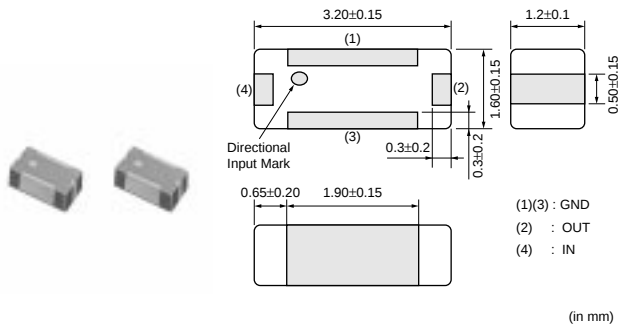


Frequency Characteristics



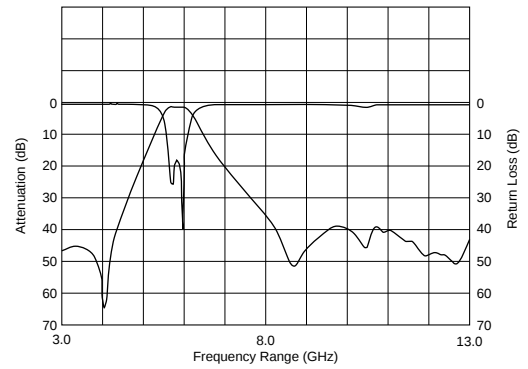
| Part Number      | Nominal Center Frequency (fo) (MHz) | Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Attenuation (Absolute Value) I) (dB) | Attenuation (Absolute Value) II) (dB) |
|------------------|-------------------------------------|----------------------|---------------------------|--------------------------------------|---------------------------------------|
| LFB311G40SL1A562 | 1402.5                              | fo±77.5              | 3 max. (at 25°C)          | 20 min. at 1005~1080MHz              | 20 min. at 1725~1760MHz               |

## ● LFB31\_SN Series (1206)



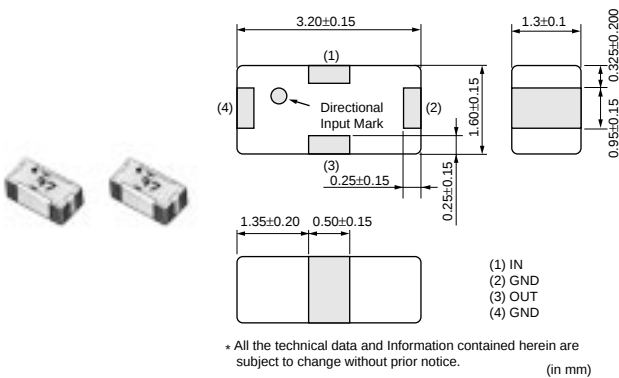
All the technical data and information contained herein are subject to change without prior notice.

Frequency Characteristics



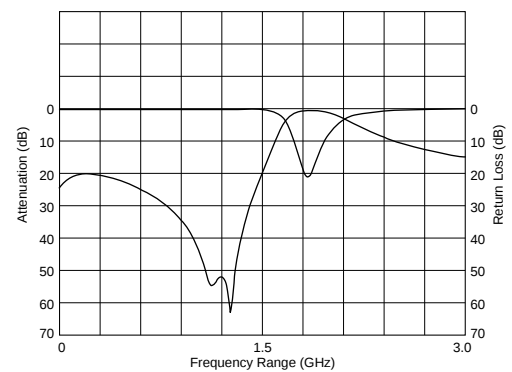
| Part Number      | Nominal Center Frequency (fo) (MHz) | Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Attenuation (Absolute Value) I) (dB) | Attenuation (Absolute Value) II) (dB) |
|------------------|-------------------------------------|----------------------|---------------------------|--------------------------------------|---------------------------------------|
| LFB315G82SN5-996 | 5820                                | fo±30                | 2 max. (at 25°C)          | 35 min. at 2000MHz                   | 30 min. at 3000MHz                    |

## ● LFB31\_SP Series (1206)



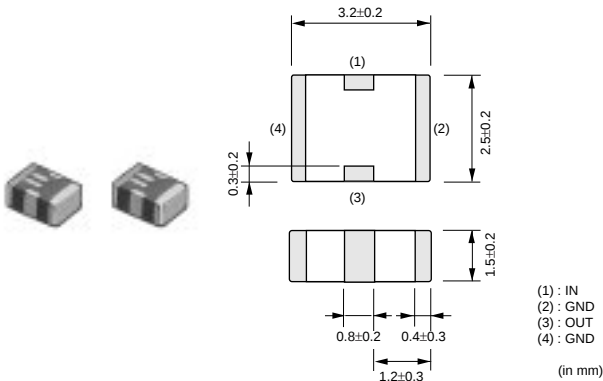
\* All the technical data and information contained herein are subject to change without prior notice.

Frequency Characteristics

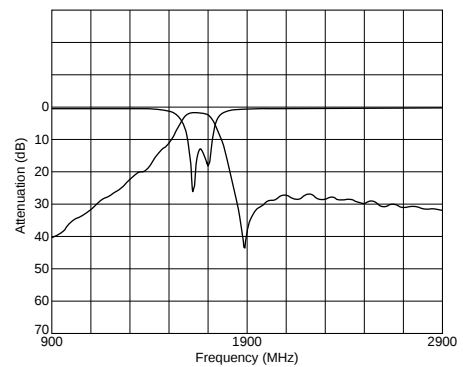


| Part Number      | Nominal Center Frequency (fo) (MHz) | Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Attenuation (Absolute Value) I) (dB) | Attenuation (Absolute Value) II) (dB) |
|------------------|-------------------------------------|----------------------|---------------------------|--------------------------------------|---------------------------------------|
| LFB311G89SP1A542 | 1890                                | fo±10.0              | 0.85 max. (at 25°C)       | 29 min. at 1416.9~1436.9Hz           | 22 min. at 900MHz                     |
| LFB311G90SP1-798 | 1906.5                              | fo±13.5              | 1.0 max. (at 25°C)        | 38 min. at 1405~1440MHz              | 12.0 min. at 1649~1680MHz             |
| LFB312G45SP1A502 | 2450                                | fo±50                | 1.4 max. (at 25°C)        | 20 min. at 902~928MHz                | 35 min. at 1500~1550MHz               |

## ● LFB32\_SB Series (1210)

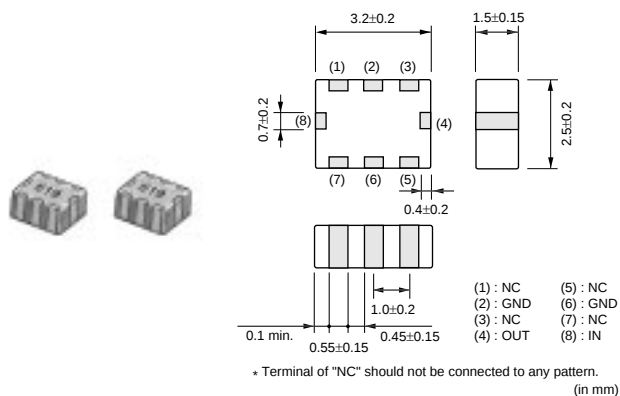


Frequency Characteristics

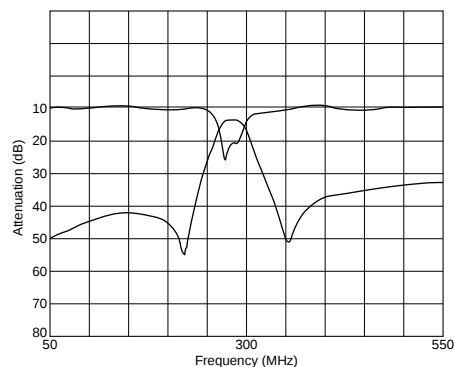


| Part Number             | Nominal Center Frequency (fo) (MHz) | Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Attenuation (Absolute Value) I) (dB) | Attenuation (Absolute Value) II) (dB) |
|-------------------------|-------------------------------------|----------------------|---------------------------|--------------------------------------|---------------------------------------|
| <b>LFB321G66SB1-560</b> | 1662                                | fo±12.5              | 2 max. (at 25°C)          | 27 min. at 1895~1918MHz              | 20 min. at 2xfo MHz                   |
| <b>LFB321G89SB1-591</b> | 1890                                | fo±10.0              | 1.2 max. (at 25°C)        | 21 min. at 1655~1675MHz              | 15 min. at 2xfo MHz                   |
| <b>LFB321G90SB1-559</b> | 1907.5                              | fo±12.5              | 1.0 max. (at 25°C)        | 35 min. at 1397.5~1440MHz            | 20 min. at 1646~1680MHz               |

## ● LFB32\_SC Series (1210)

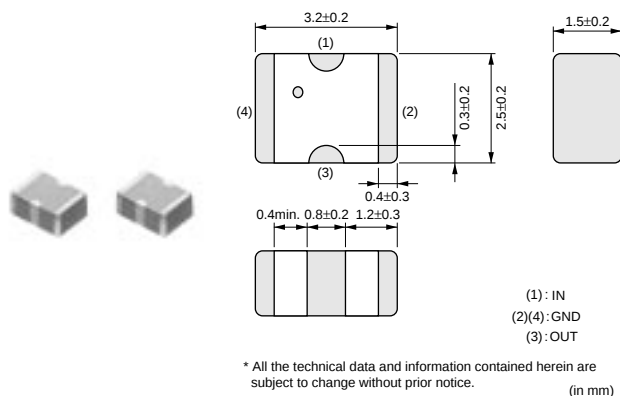


Frequency Characteristics

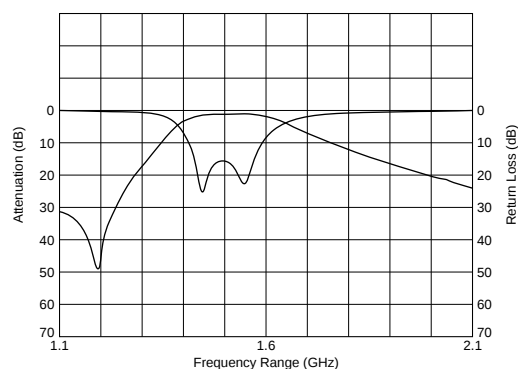


| Part Number             | Nominal Center Frequency (fo) (MHz) | Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Attenuation (Absolute Value) I) (dB) | Attenuation (Absolute Value) II) (dB) |
|-------------------------|-------------------------------------|----------------------|---------------------------|--------------------------------------|---------------------------------------|
| <b>LFB32284MSC1-596</b> | 284                                 | fo±4                 | 3.8 max. (at 25°C)        | 31 min. at 220~228MHz                | 23 min. at 340~348MHz                 |
| <b>LFB32312MSC1-597</b> | 312.25                              | fo±1.0               | 3.5 max. (at 25°C)        | 26 min. at 249.8MHz                  | 26 min. at 374.7MHz                   |
| <b>LFB32315MSC1-604</b> | 315                                 | fo±0.5               | 3.5 max. (at 25°C)        | 45 min. at 180MHz                    | 29 min. at 470MHz                     |
| <b>LFB32315MSC1-619</b> | 315                                 | fo±0                 | 3.5 max. (at 25°C)        | 30 min. at 235MHz                    | 30 min. at 395MHz                     |
| <b>LFB32426MSC1-603</b> | 426.5                               | fo±0.5               | 3.6 max. (at 25°C)        | 25 min. at 366.5MHz                  | 20 min. at 486.5MHz                   |
| <b>LFB32820MSC2-749</b> | 820                                 | fo±10.0              | 1.3 max. (at 25°C)        | 22 min. at 1070~1090MHz              | -                                     |
| <b>LFB32847MSC2-766</b> | 847.5                               | fo±37.5              | 1.5 max. (at 25°C)        | 16 min. at 550~625MHz                | 15 min. at 1070~1145MHz               |

## ● LFB32\_SJ Series (1210)

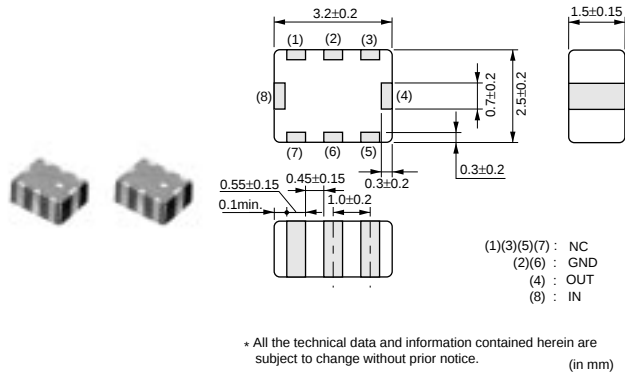


Frequency Characteristics

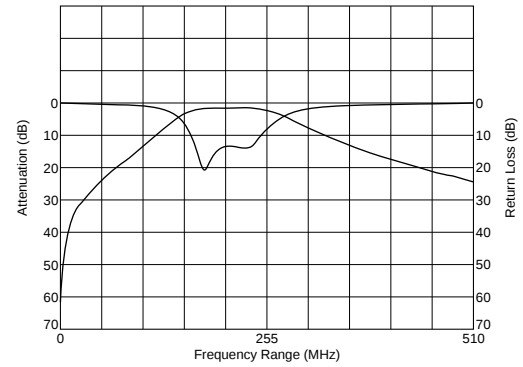


| Part Number             | Nominal Center Frequency (fo) (MHz) | Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Attenuation (Absolute Value) I) (dB) | Attenuation (Absolute Value) II) (dB) |
|-------------------------|-------------------------------------|----------------------|---------------------------|--------------------------------------|---------------------------------------|
| <b>LFB321G47SJ1-794</b> | 1472                                | fo±20                | 1.3 max. (at 25°C)        | 30 min. at 1172MHz                   | -                                     |

## ● LFB32\_SK Series (1210)

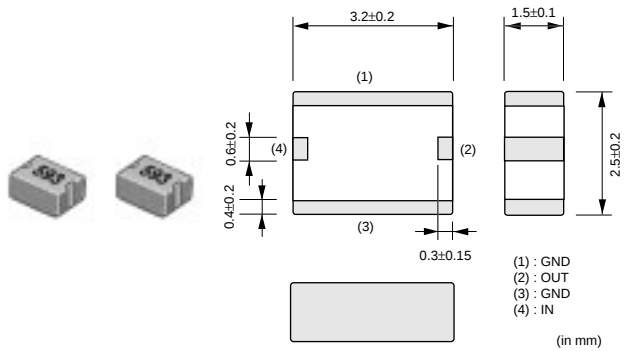


Frequency Characteristics

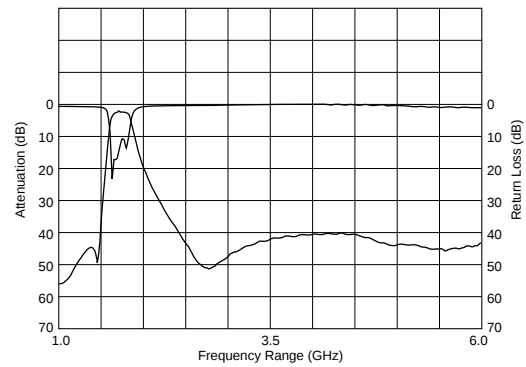


| Part Number      | Nominal Center Frequency (fo) (MHz) | Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Attenuation (Absolute Value) I) (dB) | Attenuation (Absolute Value) II) (dB) |
|------------------|-------------------------------------|----------------------|---------------------------|--------------------------------------|---------------------------------------|
| LFB32205MSK1-948 | 205.5                               | fo±31.5              | 1.5 max. (at 25°C)        | 10.0 min. at 100MHz                  | 20 min. at 500MHz                     |

## ● LFB32\_SN Series (1210)



Frequency Characteristics

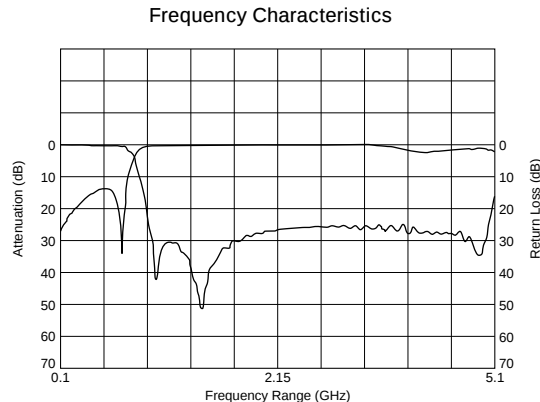
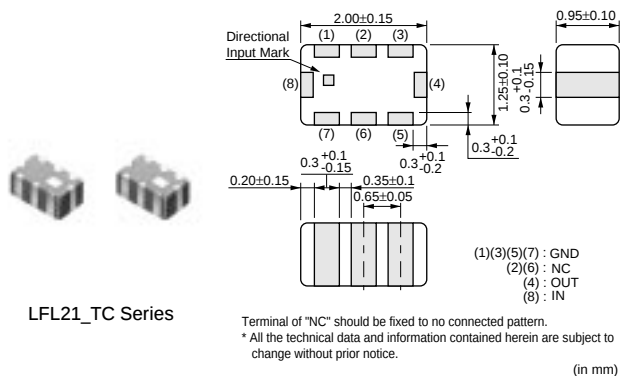
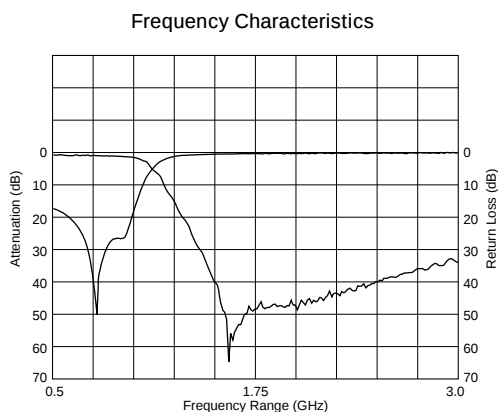
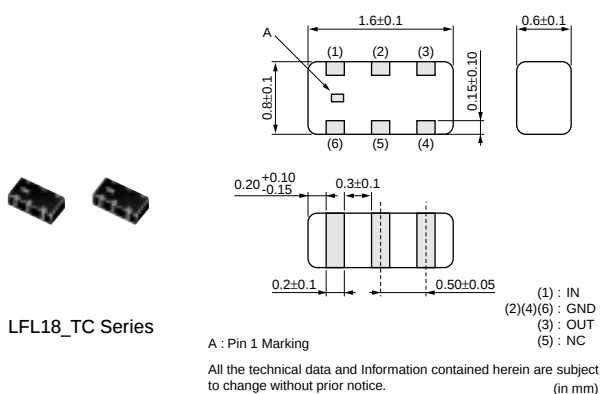
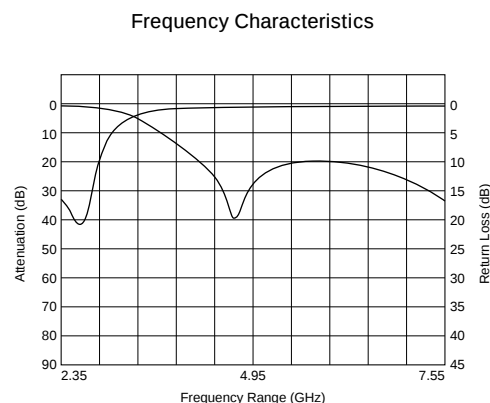
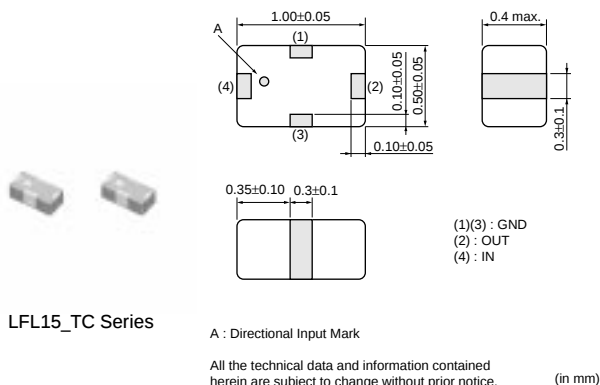


| Part Number      | Nominal Center Frequency (fo) (MHz) | Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Attenuation (Absolute Value) I) (dB) | Attenuation (Absolute Value) II) (dB) |
|------------------|-------------------------------------|----------------------|---------------------------|--------------------------------------|---------------------------------------|
| LFB321G74SN1-770 | 1747.5                              | fo±37.5              | 2.5 max. (at 25°C)        | 20 min. at D.C.~1350MHz              | 30 min. at 1350~1425MHz               |
| LFB321G84SN1-796 | 1842.5                              | fo±37.5              | 2.5 max. (at 25°C)        | 48 min. at 500~1450MHz               | 40 min. at 1450~1480MHz               |
| LFB321G90SN1-593 | 1907.5                              | fo±12.5              | 2.5 max. (at 25°C)        | 40 min. at 1406.5~1440MHz            | 35 min. at 1655~1680MHz               |
| LFB322G45SN1-947 | 2450                                | fo±50                | 2.5 max. (at 25°C)        | 40 min. at 1950MHz                   | 16 min. at 2200MHz                    |
| LFB322G45SN1A504 | 2450                                | fo±50                | 1.8 max. (at 25°C)        | 48 min. at 902~928MHz                | 50 min. at 1500~1550MHz               |
| LFB322G45SN5A515 | 2450                                | fo±50                | 2.5 max. (at 25°C)        | 40 min. at 880~1250MHz               | 20 min. at 1250~1710MHz               |

# for RF/Local

## Chip Multilayer LC Filters (LPF)

### ● LFL15\_TC (0402) /LFL18\_TC (0603) /LFL21\_TC (0805) 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) |
|------------------|-------------------------------------|----------------------|---------------------------|--------------------------------------|---------------------------------------|
| LFL152G45TC1A219 | 2450                                | fo±50                | 0.45 max. (at 25°C)       | 21 min. at 2x(fo±50.0)MHz            | 21 min. at 3x(fo±50.0)MHz             |
| LFL18815MTC2A072 | 815.5                               | fo±9.5               | 0.80 max. (at 25°C)       | 35 min. at 2x(fo±9.5)MHz             | 30 min. at 3x(fo±9.5)MHz              |
| LFL18924MTC1A052 | 924.5                               | fo±35                | 0.40 max. (at 25°C)       | 20 min. at 2x(fo±35.0)MHz            | 15 min. at 3x(fo±35.0)MHz             |
| LFL182G45TC1A108 | 2450                                | fo±50                | 0.37 max. (at 25°C)       | 27 min. at 4800~5000MHz              | 25 min. at 7200~7500MHz               |
| LFL182G45TC1A202 | 2450                                | fo±50                | 0.40 max. (at 25°C)       | 27 min. at 4800~5000MHz              | 30 min. at 7200~7500MHz               |
| LFL21600MTC1A002 | 600                                 | fo±250               | 1.37 max. (at 25°C)       | 20 min. at 1550~4250MHz              | 9 min. at 1100MHz                     |
| LFL21847MTC1A006 | 847.5                               | fo±37.5              | 0.75 max. (at 25°C)       | 30 min. at 2x(fo±37.5)MHz            | 30 min. at 3x(fo±37.5)MHz             |
| LFL21902MTC1A018 | 902.5                               | fo±12.5              | 0.6 max. (at 25°C)        | 30 min. at 2x(fo±12.5)MHz            | 30 min. at 3x(fo±12.5)MHz             |
| LFL211G35TC1A001 | 1350.0                              | fo±250               | 0.92 max. (at 25°C)       | 25 min. at 2300~5000MHz              | -                                     |
| LFL211G44TC1A014 | 1441.0                              | fo±12.0              | 0.47 max. (at 25°C)       | 31 min. at 2xfoMHz                   | 26 min. at 3xfoMHz                    |
| LFL211G79TC1A011 | 1795                                | fo±85                | 0.47 max. (at 25°C)       | 30 min. at 2x(1747.5±37.5)MHz        | 25 min. at 2x(1842.5±37.5)MHz         |
| LFL211G89TC1A015 | 1890                                | fo±10.0              | 0.47 max. (at 25°C)       | 30 min. at 2x(fo±10.0)MHz            | 26 min. at 3x(fo±10.0)MHz             |
| LFL211G90TC1A008 | 1907.5                              | fo±12.5              | 0.47 max. (at 25°C)       | 30 min. at 2x(fo±12.5)MHz            | 25 min. at 3x(fo±12.5)MHz             |

Continued on the following page.

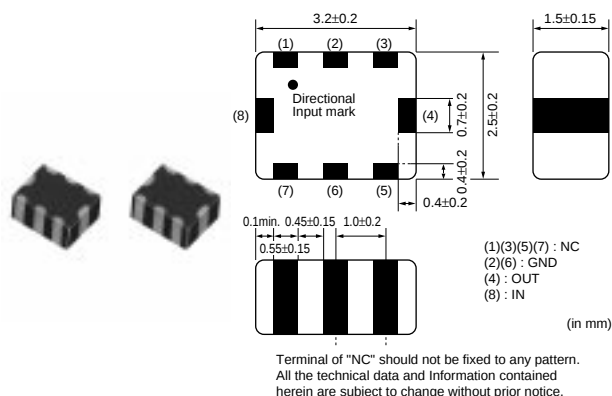
Continued from the preceding page.

| 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) |
|------------------|-------------------------------------|----------------------|---------------------------|-------------------------------------|--------------------------------------|
| LFL211G92TC1A060 | 1920                                | fo±70                | 0.6 max. (at 25°C)        | 24 min. at 3335~3700MHz             | 30 min. at 3700~3820MHz              |
| LFL212G45TC1A007 | 2450                                | fo±50                | 0.50 max. (at 25°C)       | 27 min. at 2x(fo±50.0)MHz           | 30 min. at 3x(fo±50.0)MHz            |
| LFL215G25TC1A156 | 5250                                | fo±100.0             | 0.70 max. (at 25°C)       | 24 min. at 2x(fo±100)MHz            | 19 min. at 3x(fo±100)MHz             |
| LFL215G37TC1A210 | 5375                                | fo±475               | 0.70 max. (at 25°C)       | 30 min. at 2x(fo±475)MHz            | 20 min. at 3x(fo±475)MHz             |
| LFL215G51TC1A149 | 5512                                | fo±363               | 0.70 max. (at 25°C)       | 30 min. at 2x(fo±363)MHz            | 20 min. at 3x(fo±363)MHz             |
| LFL215G78TC1A155 | 5787.5                              | fo±62.5              | 0.70 max. (at 25°C)       | 30 min. at 2x(fo±62.5)MHz           | 20 min. at 3x(fo±62.5)MHz            |

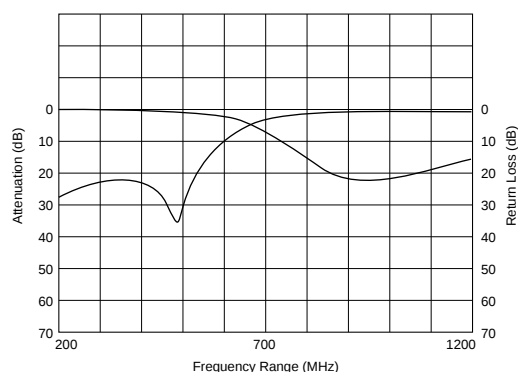
## for RF/Local

### Chip Multilayer LC Filters (HPF)

#### ● LFH32\_RA Series (1210)



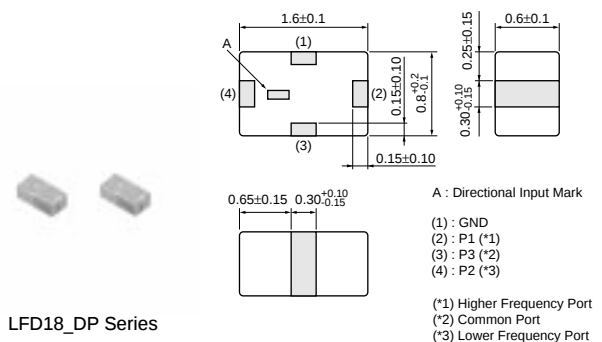
#### Frequency Characteristics



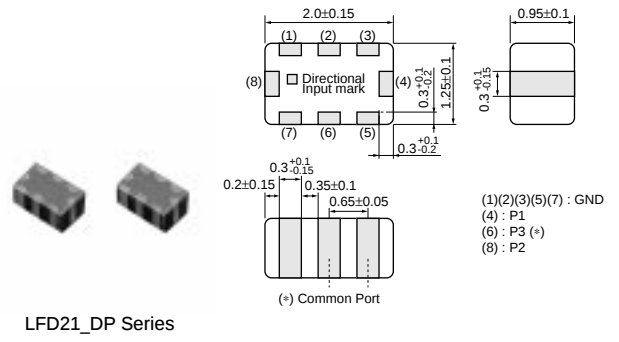
| Part Number      | Nominal Center Frequency (fo) (MHz) | Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Attenuation (Absolute Value) I (dB) | Attenuation (Absolute Value) II (dB) |
|------------------|-------------------------------------|----------------------|---------------------------|-------------------------------------|------------------------------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

## for RF/Local

### Chip Multilayer Diplexers



LFD18\_DP Series



LFD21\_DP Series

| 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) |
|------------------|-------------------------------|-------------------------------|------------------------------------|------------------------------------|---------------------------------|---------------------------------|
| LFD182G45DP3A299 | 5375 ±475.0MHz                | 2450 ±50.0MHz                 | 0.60 max. (at 25°C)                | 0.40 max. (at 25°C)                | 20 min.                         | 20 min.                         |
| LFD212G45DP3A140 | 5250 ±100.0MHz                | 2450 ±50.0MHz                 | 0.65 max. (at 25°C)                | 0.50 max. (at 25°C)                | 20 min.                         | 20 min.                         |
| LFD212G45DP3A151 | 5487.5 ±337.5MHz              | 2450 ±50.0MHz                 | 0.75 max. (at 25°C)                | 0.50 max. (at 25°C)                | 20 min.                         | 16 min.                         |
| LFD212G45DP3A188 | 5375 ±475.0MHz                | 2450 ±50.0MHz                 | 0.75 max. (at 25°C)                | 0.50 max. (at 25°C)                | 21 min.                         | 17 min.                         |
| LFD212G45DP4A189 | 2450 ±50.0MHz                 | 5375 ±475.0MHz                | 0.5 max. (at 25°C)                 | 0.75 max. (at 25°C)                | 17 min.                         | 21 min.                         |

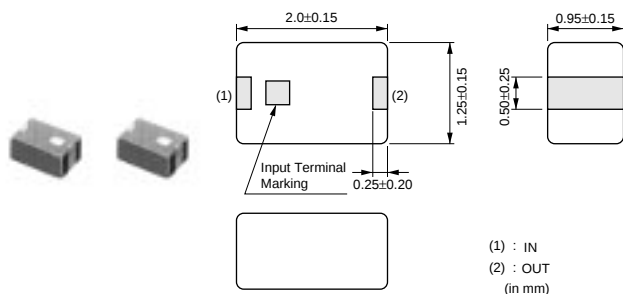
Continued on the following page. ↗

Continued from the preceding page.

| 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 ±70.0MHz                 | 859 ±35.0MHz                  | 0.45 max. (at 25°C)                | 0.40 max. (at 25°C)                | 19 min.                         | 20 min.                         |
| LFD21859MDP2A076 | 859 ±35.0MHz                  | 1920 ±70.0MHz                 | 0.40 max. (at 25°C)                | 0.45 max. (at 25°C)                | 20 min.                         | 19 min.                         |
| LFD21874MDP1A084 | 1575.5 ±3.0MHz                | 874 ±51.0MHz                  | 0.60 max. (at 25°C)                | 0.55 max. (at 25°C)                | 25 min.                         | 23 min.                         |
| LFD21874MDP2A181 | 874 ±51.0MHz                  | 1575.5 ±3.0MHz                | 0.55 max. (at 25°C)                | 0.60 max. (at 25°C)                | 23 min.                         | 25 min.                         |
| LFD21884MDP1A062 | 1906.5 ±13.0MHz               | 884 ±74.0MHz                  | 0.45 max. (at 25°C)                | 0.50 max. (at 25°C)                | 20 min.                         | 20 min.                         |
| LFD21892MDP1A141 | 1850 ±140.0MHz                | 892 ±68.0MHz                  | 0.60 max. (at 25°C)                | 0.40 max. (at 25°C)                | 19 min.                         | 17 min.                         |
| LFD21892MDP2B860 | 892 ±68.0MHz                  | 1850 ±140.0MHz                | 0.40 max. (at 25°C)                | 0.60 max. (at 25°C)                | 17 min.                         | 19 min.                         |
| LFD21920MDP1A048 | 1795 ±85.0MHz                 | 920 ±40.0MHz                  | 0.55 max. (at 25°C)                | 0.50 max. (at 25°C)                | 20 min.                         | 16 min.                         |

## for RF/Local

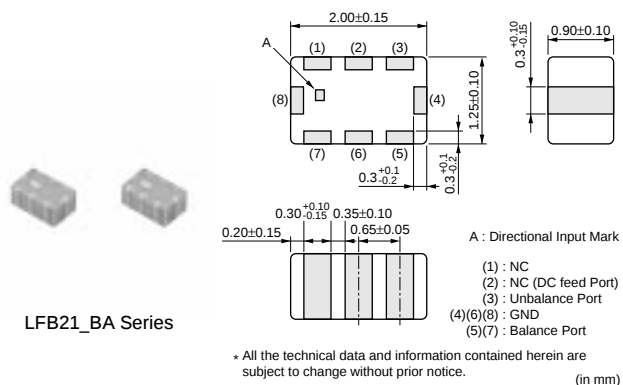
### Chip Multilayer LC Filters (Trap)



| Part Number      | Center Frequency of Rejection Band (MHz) | Pass Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Attenuation (Absolute Value) (dB) |
|------------------|------------------------------------------|---------------------------|---------------------------|-----------------------------------|
| LFE21560MHA1A004 | 560                                      | 810~885                   | 0.7 max. (at 25°C)        | 10.0 min. at 550~570MHz           |

## for RF/Local

### Chip Multilayer LC Filters (Balanced Filters)



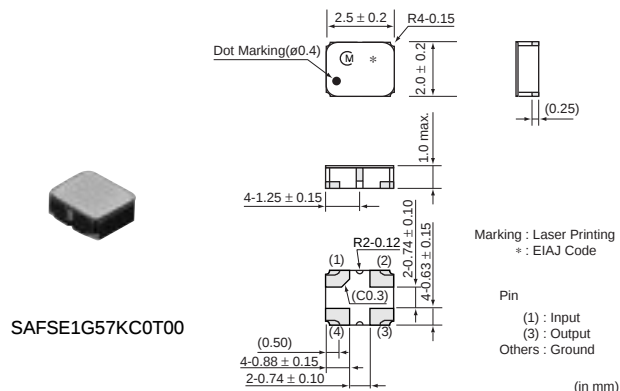
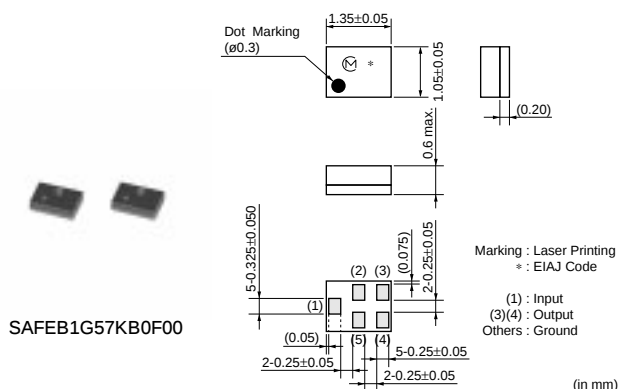
LFB21\_BA Series

| Part Number      | Nominal Center Frequency (fo) (MHz) | Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Balance Impedance (Differential) (Nom.) (ohm)  | Unbalance Impedance (Nom.) (ohm) |
|------------------|-------------------------------------|----------------------|---------------------------|------------------------------------------------|----------------------------------|
| LFB212G45BA1A220 | 2450.00                             | fo±50.00             | 3.5 max. (at 25°C)        | 34.2 -j95.0ohm (Differential) Source Impedance | 50                               |
| LFB212G45BA1A234 | 2450.00                             | fo±50.00             | 3.5 max. (at 25°C)        | 50                                             | 50                               |
| LFB212G45BA1B763 | 2450.00                             | fo±50.00             | 3.5 max. (at 25°C)        | 50 +j50ohm (Differential) Source Impedance     | 50                               |
| LFB215G37BA1A233 | 5375.00                             | fo±475.00            | 2.8 max. (at 25°C)        | 100                                            | 50                               |

## for RF/Local

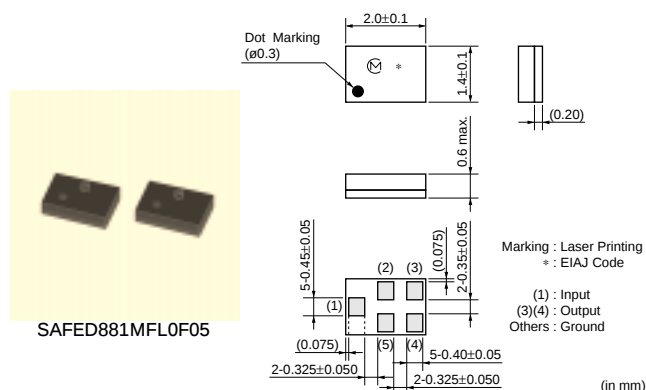
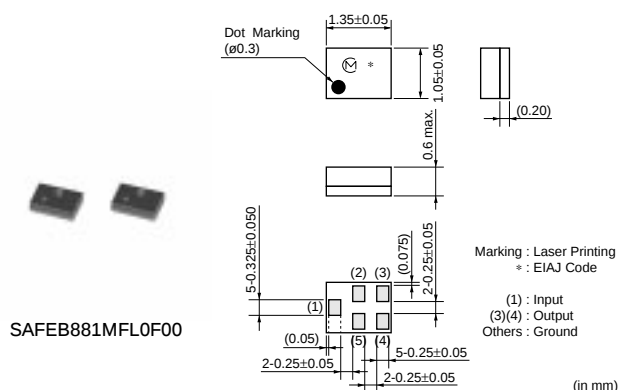
## SAW Filters

## ● GPS



| Part Number     | Center Frequency (MHz) | Insertion Loss (dB)                 | Ripple (dB max.)               | VSWR                               | Input Impedance | Output Impedance |
|-----------------|------------------------|-------------------------------------|--------------------------------|------------------------------------|-----------------|------------------|
| SAFEB1G57KB0F00 | 1575.42                | 0.8 max.<br>(1574.22MHz~1576.62MHz) | 0.5<br>(1574.22MHz~1576.62MHz) | 2.0max.<br>(1574.22MHz~1576.62MHz) | 50ohm           | 50ohm            |
| SAFEB1G57KA0F00 | 1575.5                 | 1.5 max.<br>(1574MHz~1577MHz)       | 0.6<br>(1574MHz~1577MHz)       | 1.8max.<br>(1574MHz~1577MHz)       | 50ohm           | 50ohm            |
| SAFEB1G57FM0F00 | 1575.42                | 2.3 max.<br>(1574.22MHz~1576.62MHz) | 0.6<br>(1574.22MHz~1576.62MHz) | 1.5max.<br>(1574.22MHz~1576.62MHz) | 50ohm           | 100ohm           |
| SAFEB1G57FL0F00 | 1575.42                | 2.7 max.<br>(1574.42MHz~1576.42MHz) | 0.5<br>(1574.42MHz~1576.42MHz) | 1.7max.<br>(1574.42MHz~1576.42MHz) | 50ohm           | 200ohm           |
| SAFSE1G57KC0T00 | 1575.5                 | 2.5 max.<br>(1574MHz~1577MHz)       | 0.7<br>(1574MHz~1577MHz)       | 1.6max<br>(1574MHz~1577MHz)        | 50ohm           | 50ohm            |
| SAFSD1G57FA0T00 | 1575.5                 | 1.6 max.<br>(1574MHz~1577MHz)       | 0.5<br>(1574MHz~1577MHz)       | 1.6max.<br>(1574MHz~1577MHz)       | 50ohm           | 100ohm           |
| SAFSE1G57KA0T05 | 1575.5                 | 1.6 max.<br>(1574MHz~1577MHz)       | 0.7<br>(1574MHz~1577MHz)       | 1.6max.<br>(1574MHz~1577MHz)       | 50ohm           | 50ohm            |
| SAFSE1G57KA0T09 | 1575.42                | 2 max.<br>(1574.42MHz~1576.42MHz)   | 1.5<br>(1574.42MHz~1576.42MHz) | 1.8max.<br>(1574.42MHz~1576.42MHz) | 50ohm           | 50ohm            |

## ● GSM850



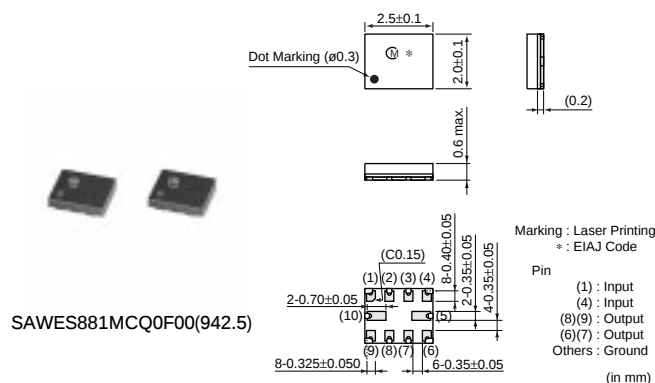
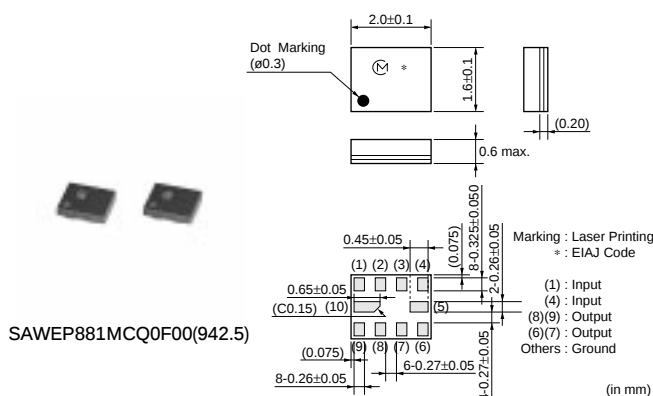
| Part Number     | Center Frequency (MHz) | Insertion Loss (dB)         | Ripple (dB max.)       | VSWR                       | Input Impedance | Output Impedance |
|-----------------|------------------------|-----------------------------|------------------------|----------------------------|-----------------|------------------|
| SAFEB881MFL0F00 | 881.5                  | 2.3 max.<br>(869MHz~894MHz) | 1.2<br>(869MHz~894MHz) | 1.8max.<br>(869MHz~894MHz) | 50ohm           | 150ohm//82nH     |
| SAFED881MFL0F05 | 881.5                  | 2.0 max.<br>(869MHz~894MHz) | 1.1<br>(869MHz~894MHz) | 1.8max.<br>(869MHz~894MHz) | 50ohm           | 150ohm//68nH     |

Continued on the following page.

Continued from the preceding page.

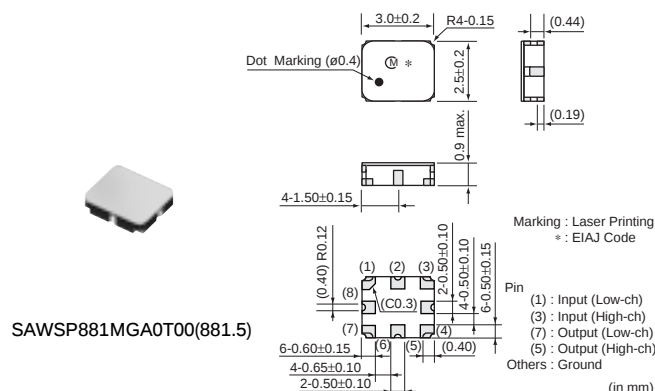
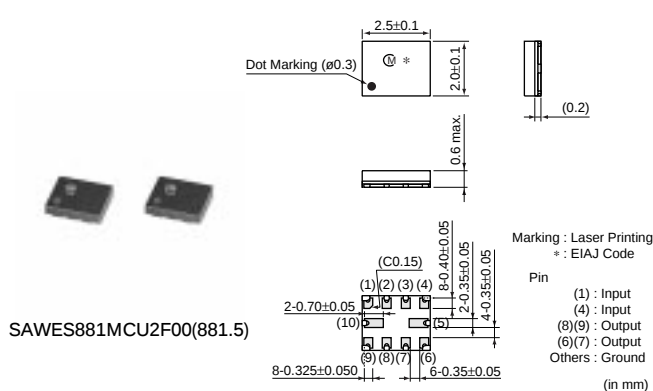
| Part Number     | Center Frequency (MHz) | Insertion Loss (dB)         | Ripple (dB max.)       | VSWR                       | Input Impedance | Output Impedance |
|-----------------|------------------------|-----------------------------|------------------------|----------------------------|-----------------|------------------|
| SAFEH881MFM0F00 | 881.5                  | 2.4 max.<br>(869MHz~894MHz) | 1.5<br>(869MHz~894MHz) | 1.9max.<br>(869MHz~894MHz) | 50ohm           | 150ohm//82nH     |
| SAFEF881MAL0F00 | 881.5                  | 2.6 max.<br>(869MHz~894MHz) | 1.4<br>(869MHz~894MHz) | 1.7max.<br>(869MHz~894MHz) | 50ohm           | 50ohm            |
| SAFSD881MFL0T50 | 881.5                  | 3 max.<br>(869MHz~894MHz)   | 1.4<br>(869MHz~894MHz) | 2max.<br>(869MHz~894MHz)   | 50ohm           | 200ohm//82nH     |

● GSM850/GSM900 Dual Band



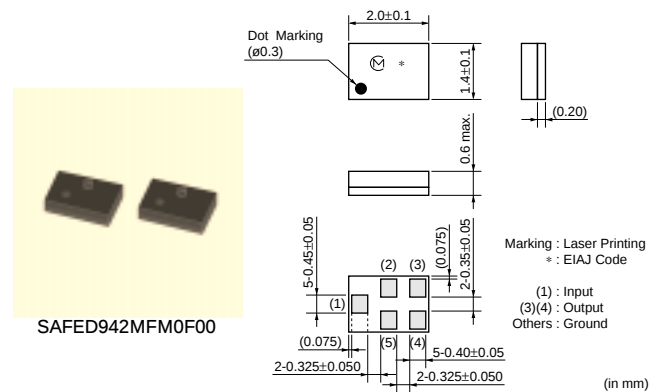
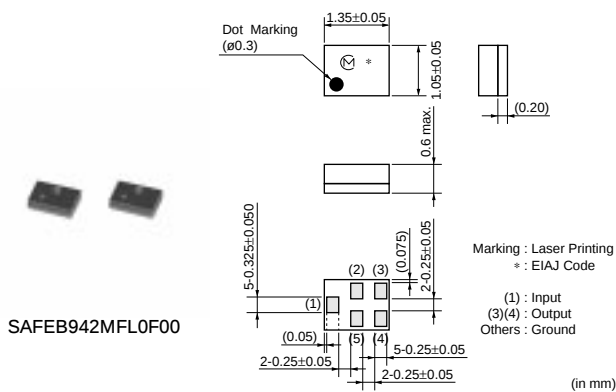
| Part Number                   | Center Frequency (MHz) | Insertion Loss (dB)         | Ripple (dB max.)       | VSWR                       | Input Impedance | Output Impedance |
|-------------------------------|------------------------|-----------------------------|------------------------|----------------------------|-----------------|------------------|
| <b>SAWEP881MCQ0F00(881.5)</b> | 881.5                  | 2.0 max.<br>(869MHz~894MHz) | 1.1<br>(869MHz~894MHz) | 2.0max.<br>(869MHz~894MHz) | 50ohm           | 150ohm//82nH     |
| <b>SAWEP881MCQ0F00(942.5)</b> | 942.5                  | 2.4 max.<br>(925MHz~960MHz) | 1.5<br>(925MHz~960MHz) | 2.1max.<br>(925MHz~960MHz) | 50ohm           | 150ohm//82nH     |
| <b>SAWEP881MCP0F00(881.5)</b> | 881.5                  | 2.0 max.<br>(869MHz~894MHz) | 1.1<br>(869MHz~894MHz) | 2.0max.<br>(869MHz~894MHz) | 50ohm           | 150ohm//82nH     |
| <b>SAWEP881MCP0F00(942.5)</b> | 942.5                  | 2.4 max.<br>(925MHz~960MHz) | 1.5<br>(925MHz~960MHz) | 2.1max.<br>(925MHz~960MHz) | 50ohm           | 150ohm//82nH     |
| <b>SAWES881MCQ0F00(881.5)</b> | 881.5                  | 2.1 max.<br>(869MHz~894MHz) | 1.0<br>(869MHz~894MHz) | 1.9max.<br>(869MHz~894MHz) | 50ohm           | 150ohm//68nH     |
| <b>SAWES881MCQ0F00(942.5)</b> | 942.5                  | 2.9 max.<br>(925MHz~960MHz) | 1.7<br>(925MHz~960MHz) | 2.2max.<br>(925MHz~960MHz) | 50ohm           | 150ohm//56nH     |

- GSM850/GSM1900 Dual Band



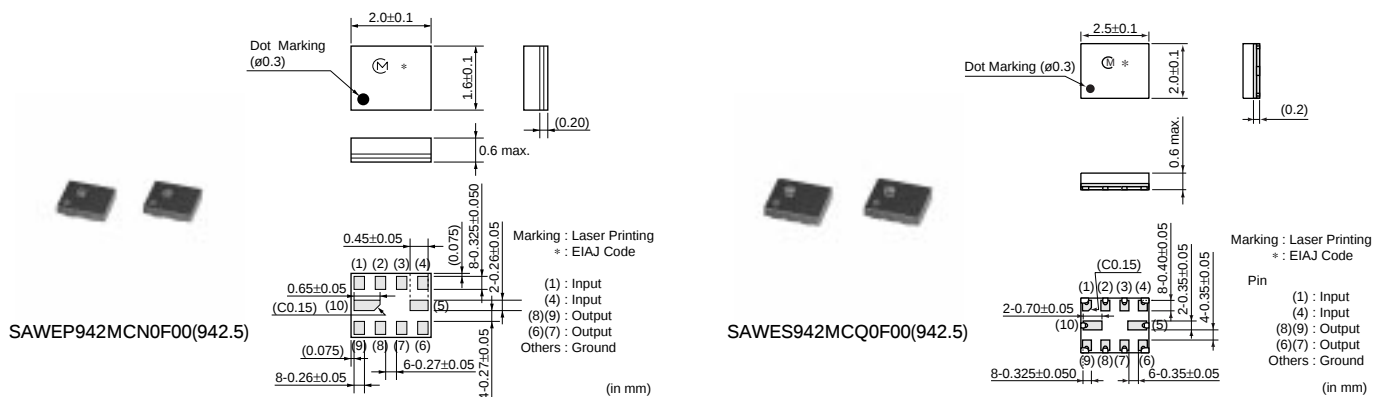
| Part Number                   | Center Frequency (MHz) | Insertion Loss (dB)           | Ripple (dB max.)         | VSWR                         | Input Impedance | Output Impedance |
|-------------------------------|------------------------|-------------------------------|--------------------------|------------------------------|-----------------|------------------|
| <b>SAWES881MCU2F00(881.5)</b> | 881.5                  | 2.1 max.<br>(869MHz~894MHz)   | 1.0<br>(869MHz~894MHz)   | 1.9max.<br>(869MHz~894MHz)   | 50ohm           | 150ohm//68nH     |
| <b>SAWES881MCU2F00(1960)</b>  | 1960                   | 3 max.<br>(1930MHz~1990MHz)   | 1.9<br>(1930MHz~1990MHz) | 2.4max.<br>(1930MHz~1990MHz) | 50ohm           | 150ohm//22nH     |
| <b>SAWSP881MGA0T00(881.5)</b> | 881.5                  | 2.9 max.<br>(869MHz~894MHz)   | 1.5<br>(869MHz~894MHz)   | 2max.<br>(869MHz~894MHz)     | 50ohm           | 50ohm            |
| <b>SAWSP881MGA0T00(1960)</b>  | 1960                   | 3.2 max.<br>(1930MHz~1990MHz) | 2<br>(1930MHz~1990MHz)   | 2.4max.<br>(1930MHz~1990MHz) | 50ohm           | 50ohm            |
| <b>SAWSU881MCQ0T01(881.5)</b> | 881.5                  | 3 max.<br>(869MHz~894MHz)     | 1.8<br>(869MHz~894MHz)   | 2max.<br>(869MHz~894MHz)     | 50ohm           | 200ohm//56nH     |
| <b>SAWSU881MCQ0T01(1960)</b>  | 1960                   | 3 max.<br>(1930MHz~1990MHz)   | 2.4<br>(1930MHz~1990MHz) | 2.2max.<br>(1930MHz~1990MHz) | 50ohm           | 200ohm//15nH     |

## ● GSM900



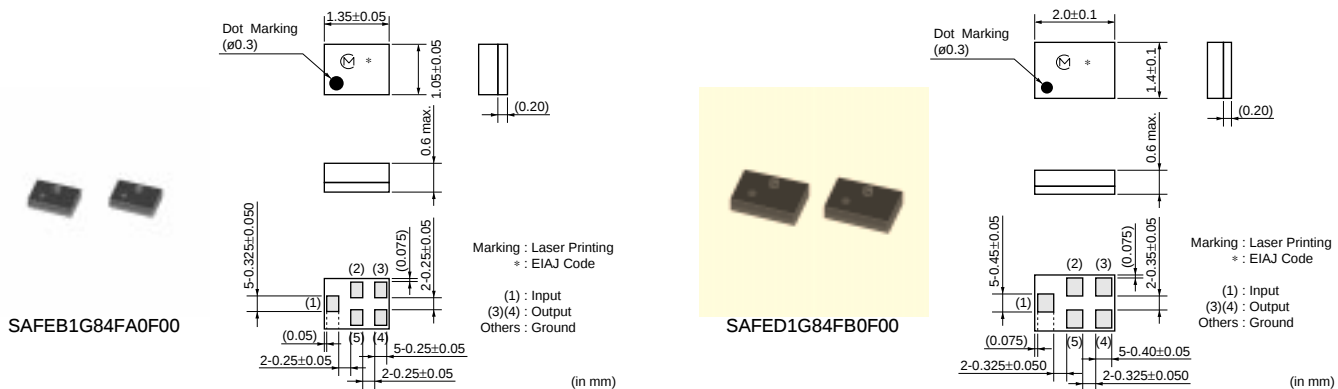
| Part Number            | Center Frequency (MHz) | Insertion Loss (dB)         | Ripple (dB max.)       | VSWR                       | Input Impedance | Output Impedance |
|------------------------|------------------------|-----------------------------|------------------------|----------------------------|-----------------|------------------|
| <b>SAWEB942MFL0F00</b> | 942.5                  | 2.7 max.<br>(925MHz~960MHz) | 1.7<br>(925MHz~960MHz) | 2max.<br>(925MHz~960MHz)   | 50ohm           | 150ohm//82nH     |
| <b>SAFED942MFM0F00</b> | 942.5                  | 2.2 max.<br>(925MHz~960MHz) | 1.3<br>(925MHz~960MHz) | 2.1max.<br>(925MHz~960MHz) | 50ohm           | 150ohm//82nH     |
| <b>SAFEH942MFN0F00</b> | 942.5                  | 2.7 max.<br>(925MHz~960MHz) | 1.8<br>(925MHz~960MHz) | 2max.<br>(925MHz~960MHz)   | 50ohm           | 150ohm//82nH     |
| <b>SAFEF942MAL0F00</b> | 942.5                  | 3 max.<br>(925MHz~960MHz)   | 1.7<br>(925MHz~960MHz) | 2.1max.<br>(925MHz~960MHz) | 50ohm           | 50ohm            |
| <b>SAFSD942MFM0T00</b> | 942.5                  | 3.2 max.<br>(925MHz~960MHz) | 2.2<br>(925MHz~960MHz) | 2.3max.<br>(925MHz~960MHz) | 50ohm           | 200ohm//82nH     |
| <b>SAFSD942MCL0T00</b> | 942.5                  | 3.3 max.<br>(925MHz~960MHz) | 1.8<br>(925MHz~960MHz) | 2max.<br>(925MHz~960MHz)   | 50ohm           | 50ohm            |
| <b>SAFSE942MAL0T05</b> | 942.5                  | 3.2 max.<br>(925MHz~960MHz) | 2<br>(925MHz~960MHz)   | 2.2max.<br>(925MHz~960MHz) | 50ohm           | 50ohm            |

## ● GSM900/GSM1800 Dual Band



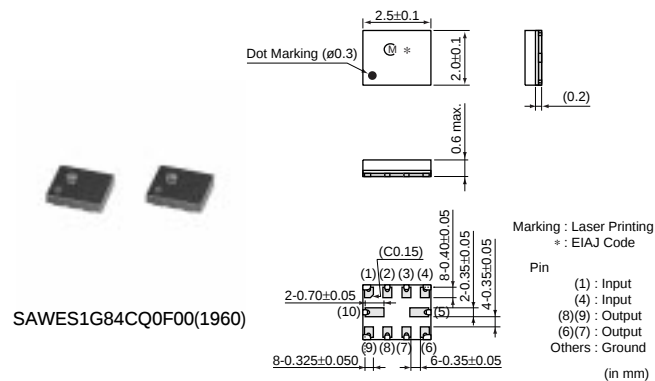
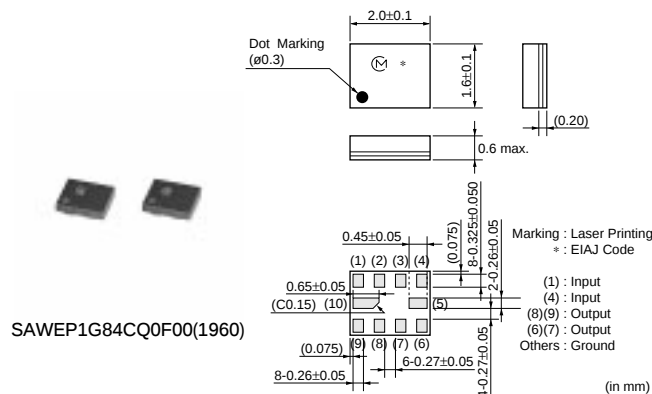
| Part Number                    | Center Frequency (MHz) | Insertion Loss (dB)           | Ripple (dB max.)         | VSWR                         | Input Impedance | Output Impedance |
|--------------------------------|------------------------|-------------------------------|--------------------------|------------------------------|-----------------|------------------|
| <b>SAWEP942MCN0F00(942.5)</b>  | 942.5                  | 2.3 max.<br>(925MHz~960MHz)   | 1.3<br>(925MHz~960MHz)   | 2.1max.<br>(925MHz~960MHz)   | 50ohm           | 150ohm//82nH     |
| <b>SAWEP942MCN0F00(1842.5)</b> | 1842.5                 | 2.2 max.<br>(1805MHz~1880MHz) | 1.2<br>(1805MHz~1880MHz) | 2.2max.<br>(1805MHz~1880MHz) | 50ohm           | 150ohm//15nH     |
| <b>SAWES942MCQ0F00(942.5)</b>  | 942.5                  | 2.9 max.<br>(925MHz~960MHz)   | 1.7<br>(925MHz~960MHz)   | 2.2max.<br>(925MHz~960MHz)   | 50ohm           | 150ohm//56nH     |
| <b>SAWES942MCQ0F00(1842.5)</b> | 1842.5                 | 2.6 max.<br>(1805MHz~1880MHz) | 1.7<br>(1805MHz~1880MHz) | 2.4max.<br>(1805MHz~1880MHz) | 50ohm           | 150ohm//15nH     |
| <b>SAWES942MCM0F00(942.5)</b>  | 942.5                  | 2.8 max.<br>(925MHz~960MHz)   | 1.5<br>(925MHz~960MHz)   | 2max.<br>(925MHz~960MHz)     | 50ohm           | 150ohm//56nH     |
| <b>SAWES942MCM0F00(1842.5)</b> | 1842.5                 | 3 max.<br>(1805MHz~1880MHz)   | 1.8<br>(1805MHz~1880MHz) | 2.2max.<br>(1805MHz~1880MHz) | 50ohm           | 150ohm//18nH     |
| <b>SAWES942MCQ0F05(942.5)</b>  | 942.5                  | 2.9 max.<br>(925MHz~960MHz)   | 1.7<br>(925MHz~960MHz)   | 2.2max.<br>(925MHz~960MHz)   | 50ohm           | 150ohm//56nH     |
| <b>SAWES942MCQ0F05(1842.5)</b> | 1842.5                 | 2.6 max.<br>(1805MHz~1880MHz) | 1.7<br>(1805MHz~1880MHz) | 2.4max.<br>(1805MHz~1880MHz) | 50ohm           | 150ohm//15nH     |
| <b>SAWSP942MLD0T00(942.5)</b>  | 942.5                  | 3 max.<br>(925MHz~960MHz)     | 2<br>(925MHz~960MHz)     | 2.5max.<br>(925MHz~960MHz)   | 50ohm           | 50ohm            |
| <b>SAWSP942MLD0T00(1842.5)</b> | 1842.5                 | 3.2 max.<br>(1805MHz~1880MHz) | 2<br>(1805MHz~1880MHz)   | 2.5max.<br>(1805MHz~1880MHz) | 50ohm           | 50ohm            |
| <b>SAWSU942MCS0T01(942.5)</b>  | 942.5                  | 3.2 max.<br>(925MHz~960MHz)   | 2.2<br>(925MHz~960MHz)   | 2.4max.<br>(925MHz~960MHz)   | 50ohm           | 200ohm//47nH     |
| <b>SAWSU942MCS0T01(1842.5)</b> | 1842.5                 | 3.2 max.<br>(1805MHz~1880MHz) | 2.2<br>(1805MHz~1880MHz) | 2.5max.<br>(1805MHz~1880MHz) | 50ohm           | 200ohm//16nH     |

## ● GSM1800



| Part Number            | Center Frequency (MHz) | Insertion Loss (dB)           | Ripple (dB max.)         | VSWR                         | Input Impedance | Output Impedance |
|------------------------|------------------------|-------------------------------|--------------------------|------------------------------|-----------------|------------------|
| <b>SAFE1G84FA0F00</b>  | 1842.5                 | 2.5 max.<br>(1805~1880MHz)    | 1.5<br>(1805MHz~1880MHz) | 2.2max.<br>(1805MHz~1880MHz) | 50ohm           | 150ohm//18nH     |
| <b>SAFED1G84FB0F00</b> | 1842.5                 | 2.0 max.<br>(1805~1880MHz)    | 1.3<br>(1805MHz~1880MHz) | 2.5max.<br>(1805MHz~1880MHz) | 50ohm           | 150ohm//18nH     |
| <b>SAFEH1G84FB0F00</b> | 1842.5                 | 2.5 max.<br>(1805~1880MHz)    | 1.5<br>(1805MHz~1880MHz) | 2.2max.<br>(1805MHz~1880MHz) | 50ohm           | 150ohm//18nH     |
| <b>SAFEF1G84AA0F00</b> | 1842.5                 | 2.8 max.<br>(1805~1880MHz)    | 1.7<br>(1805MHz~1880MHz) | 2.2max.<br>(1805MHz~1880MHz) | 50ohm           | 50ohm            |
| <b>SAFSE1G84KA0T00</b> | 1842.5                 | 3.2 max.<br>(1805~1880MHz)    | 2.2<br>(1805MHz~1880MHz) | 2.8max.<br>(1805MHz~1880MHz) | 50ohm           | 50ohm            |
| <b>SAFSD1G84FA0T00</b> | 1842.5                 | 3 max.<br>(1805~1880MHz)      | 2<br>(1805MHz~1880MHz)   | 2.7max.<br>(1805MHz~1880MHz) | 50ohm           | 200ohm//27nH     |
| <b>SAFSD1G84CB0T00</b> | 1842.5                 | 3.8 max.<br>(1805~1880MHz)    | 2<br>(1805MHz~1880MHz)   | 2.7max.<br>(1805MHz~1880MHz) | 50ohm           | 50ohm            |
| <b>SAFCC1G74KA0T00</b> | 1747.5                 | 4.2 max.<br>(1710MHz~1785MHz) | 2.6<br>(1710MHz~1785MHz) | 2.5max.<br>(1710MHz~1785MHz) | 50ohm           | 50ohm            |

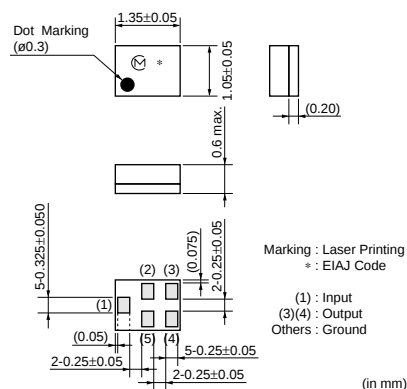
### ● GSM1800/GSM1900 Dual Band



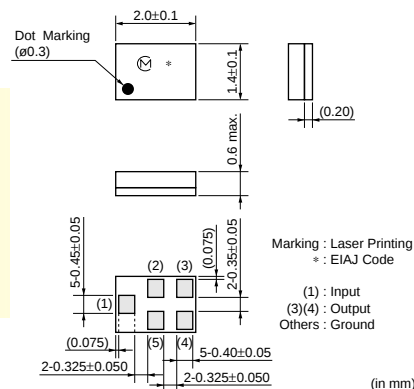
| Part Number                    | Center Frequency (MHz) | Insertion Loss (dB)           | Ripple (dB max.)         | VSWR                         | Input Impedance | Output Impedance |
|--------------------------------|------------------------|-------------------------------|--------------------------|------------------------------|-----------------|------------------|
| <b>SAWEP1G84CQ0F00(1842.5)</b> | 1842.5                 | 2.5 max.<br>(1805MHz~1880MHz) | 1.5<br>(1805MHz~1880MHz) | 2.2max.<br>(1805MHz~1880MHz) | 50ohm           | 150ohm//15nH     |
| <b>SAWEP1G84CQ0F00(1960)</b>   | 1960                   | 2.6 max.<br>(1930MHz~1990MHz) | 1.8<br>(1930MHz~1990MHz) | 2.2max.<br>(1930MHz~1990MHz) | 50ohm           | 150ohm//18nH     |
| <b>SAWES1G84CQ0F00(1842.5)</b> | 1842.5                 | 2.6 max.<br>(1805MHz~1880MHz) | 1.7<br>(1805MHz~1880MHz) | 2.4max.<br>(1805MHz~1880MHz) | 50ohm           | 150ohm//15nH     |
| <b>SAWES1G84CQ0F00(1960)</b>   | 1960                   | 3.0 max.<br>(1930MHz~1990MHz) | 1.9<br>(1930MHz~1990MHz) | 2.4max.<br>(1930MHz~1990MHz) | 50ohm           | 150ohm//22nH     |

## ● GSM1900

SAFE1G96FA0F00



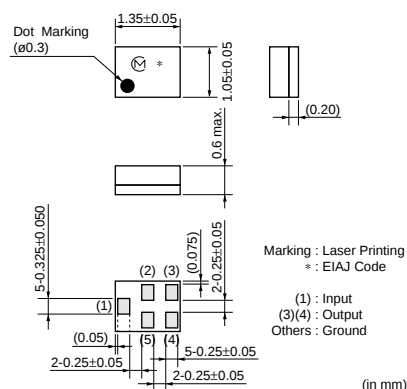
SAFED1G96FA0F00



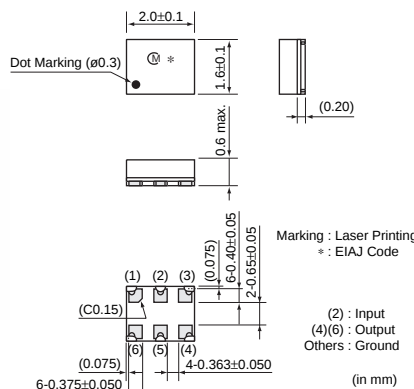
| Part Number     | Center Frequency (MHz) | Insertion Loss (dB)        | Ripple (dB max.)         | VSWR                         | Input Impedance | Output Impedance |
|-----------------|------------------------|----------------------------|--------------------------|------------------------------|-----------------|------------------|
| SAFE1G96FA0F00  | 1960                   | 2.6 max.<br>(1930~1990MHz) | 1.8<br>(1930MHz~1990MHz) | 2.2max.<br>(1930MHz~1990MHz) | 50ohm           | 150ohm//27nH     |
| SAFED1G96FA0F00 | 1960                   | 2.9 max.<br>(1930~1990MHz) | 1.8<br>(1930MHz~1990MHz) | 2.4max.<br>(1930MHz~1990MHz) | 50ohm           | 150ohm//18nH     |
| SAFEH1G96FB0F00 | 1960                   | 2.6 max.<br>(1930~1990MHz) | 1.8<br>(1930MHz~1990MHz) | 2.2max.<br>(1930MHz~1990MHz) | 50ohm           | 150ohm//22nH     |
| SAFEF1G96AA0F00 | 1960                   | 2.8 max.<br>(1930~1990MHz) | 1.7<br>(1930MHz~1990MHz) | 2.4max.<br>(1930MHz~1990MHz) | 50ohm           | 50ohm            |
| SAFSE1G96KD0T00 | 1960                   | 3 max.<br>(1930~1990MHz)   | 2<br>(1930MHz~1990MHz)   | 2.5max.<br>(1930MHz~1990MHz) | 50ohm           | 50ohm            |
| SAFSD1G96FB0T00 | 1960                   | 3 max.<br>(1930~1990MHz)   | 2.4<br>(1930MHz~1990MHz) | 2.4max.<br>(1930MHz~1990MHz) | 50ohm           | 200ohm//22nH     |

## ● J-CDMA

SAFE911MAL0F00



SAFE906MAM0F00



| Part Number     | Center Frequency (MHz) | Insertion Loss (dB)         | Ripple (dB max.)       | VSWR                       | Input Impedance | Output Impedance |
|-----------------|------------------------|-----------------------------|------------------------|----------------------------|-----------------|------------------|
| SAFE911MAL0F00  | 911.5                  | 2.2 max.<br>(898MHz~925MHz) | 1.2<br>(898MHz~925MHz) | 2.0max.<br>(898MHz~925MHz) | 50ohm           | 50ohm            |
| SAFE856MCM0F00  | 856.5                  | 2.2 max.<br>(843MHz~870MHz) | 1.2<br>(843MHz~870MHz) | 2.0max.<br>(843MHz~870MHz) | 50ohm           | 100ohm           |
| SAFE906MAM0F00  | 906                    | 3.2 max.<br>(887MHz~925MHz) | 1.5<br>(887MHz~925MHz) | 2.4max.<br>(887MHz~925MHz) | 50ohm           | 50ohm            |
| SAFSE906MAM0T00 | 906                    | 4 max.<br>(887MHz~925MHz)   | 2.5<br>(887MHz~925MHz) | 2.4max.<br>(887MHz~925MHz) | 50ohm           | 50ohm            |
| SAFSE851MKB0T00 | 851                    | 3.4 max.<br>(832MHz~870MHz) | 2.5<br>(832MHz~870MHz) | 2.2max.<br>(832MHz~870MHz) | 50ohm           | 50ohm            |
| SAFSD906MCL0T00 | 906                    | 4.2 max.<br>(887MHz~925MHz) | 2.5<br>(887MHz~925MHz) | 2.8max.<br>(887MHz~925MHz) | 50ohm           | 50ohm            |

Continued on the following page.

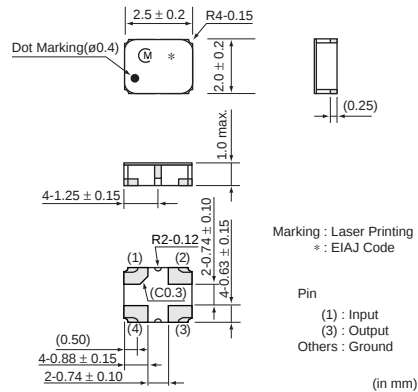


| Part Number            | Center Frequency (MHz) | Insertion Loss (dB)         | Ripple (dB max.)       | VSWR                       | Input Impedance | Output Impedance |
|------------------------|------------------------|-----------------------------|------------------------|----------------------------|-----------------|------------------|
| <b>SAFSD851MXA0T00</b> | 851                    | 2.6 max.<br>(832MHz~870MHz) | 1.9<br>(832MHz~870MHz) | 2.7max.<br>(832MHz~870MHz) | 50ohm           | 100ohm//56nH     |

- PCS(CDMA)



SAFSE1G88KC0T00

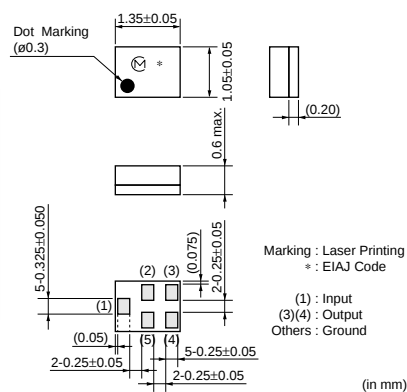


| Part Number     | Center Frequency (MHz) | Insertion Loss (dB)         | Ripple (dB max.)         | VSWR                         | Input Impedance | Output Impedance |
|-----------------|------------------------|-----------------------------|--------------------------|------------------------------|-----------------|------------------|
| SAFSE1G88KC0T00 | 1880                   | 5 max.<br>(1850MHz~1910MHz) | 3.5<br>(1850MHz~1910MHz) | 2.2max.<br>(1850MHz~1910MHz) | 50ohm           | 50ohm            |
| SAFSD1G96FL0T00 | 1960                   | 4 max.<br>(1930MHz~1990MHz) | 2<br>(1930MHz~1990MHz)   | 2.1max.<br>(1930MHz~1990MHz) | 50ohm           | 100ohm           |

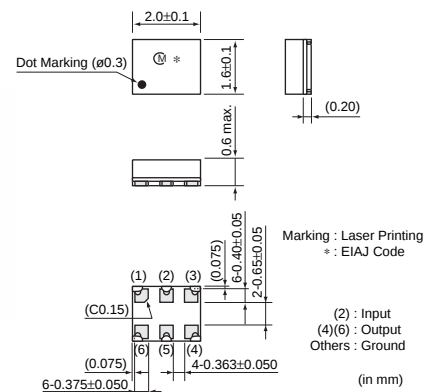
- W-CDMA



SAFEB2G14FA0F00



SAFEH2G14FA0F00



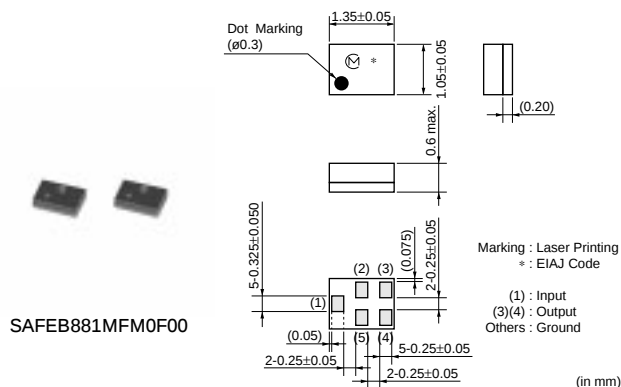
| Part Number     | Center Frequency (MHz) | Insertion Loss (dB)        | Ripple (dB max.)         | VSWR                         | Input Impedance | Output Impedance |
|-----------------|------------------------|----------------------------|--------------------------|------------------------------|-----------------|------------------|
| SAFEB2G14FA0F00 | 2140                   | 2.3 max.<br>(2110~2170MHz) | 1.2<br>(2110MHz~2170MHz) | 1.8max.<br>(2110MHz~2170MHz) | 50ohm           | 200ohm//27nH     |
| SAFEB1G95KA0F00 | 1950                   | 2.9 max.<br>(1920~1980MHz) | 2.0<br>(1920MHz~1980MHz) | 2max.<br>(1920MHz~1980MHz)   | 50ohm           | 50ohm            |
| SAFEB1G95FL0F00 | 1950                   | 2.6 max.<br>(1920~1980MHz) | 1.3<br>(1920MHz~1980MHz) | 1.8max.<br>(1920MHz~1980MHz) | 200ohm//27nH    | 50ohm            |
| SAFEH2G14FA0F00 | 2140                   | 2.3 max.<br>(2110~2170MHz) | 1.2<br>(2110MHz~2170MHz) | 1.8max.<br>(2110MHz~2170MHz) | 50ohm           | 200ohm//27nH     |
| SAFEH1G95FL0F00 | 1950                   | 2.8 max.<br>(1920~1980MHz) | 1.5<br>(1920MHz~1980MHz) | 2max.<br>(1920MHz~1980MHz)   | 200ohm//33nH    | 50ohm            |
| SAFEF1G95KA0F00 | 1950                   | 3 max.<br>(1920~1980MHz)   | 1.7<br>(1920MHz~1980MHz) | 2max.<br>(1920MHz~1980MHz)   | 50ohm           | 50ohm            |

Continued on the following page. 

Continued from the preceding page.

| Part Number            | Center Frequency (MHz) | Insertion Loss (dB)           | Ripple (dB max.)         | VSWR                         | Input Impedance | Output Impedance |
|------------------------|------------------------|-------------------------------|--------------------------|------------------------------|-----------------|------------------|
| <b>SAFZE1G95KD0F00</b> | 1950                   | 3.2 max.<br>(1920~1980MHz)    | 1.5<br>(1920MHz~1980MHz) | 2.6max.<br>(1920MHz~1980MHz) | 50ohm           | 50ohm            |
| <b>SAFZD2G14FC0F00</b> | 2140                   | 2.7 max.<br>(2110~2170MHz)    | 1.3<br>(2110MHz~2170MHz) | 2.3max.<br>(2110MHz~2170MHz) | 50ohm           | 100ohm           |
| <b>SAFSE2G14KB0T00</b> | 2140                   | 2.7 max.<br>(2110~2170MHz)    | 1.3<br>(2110MHz~2170MHz) | 2max.<br>(2110MHz~2170MHz)   | 50ohm           | 50ohm            |
| <b>SAFSD2G14FA0T00</b> | 2140                   | 2.7 max.<br>(2110MHz~2170MHz) | 1.5<br>(2110MHz~2170MHz) | 2.2max<br>(2110MHz~2170MHz)  | 50ohm           | 200ohm//22nH     |
| <b>SAFSD1G95FA0T00</b> | 1950                   | 3.2 max.<br>(1920~1980MHz)    | 1.6<br>(1920MHz~1980MHz) | 2.1max.<br>(1920MHz~1980MHz) | 200ohm//22nH    | 50ohm            |

## CDMA800/TDMA800/E-AMPS/GSM850



| Part Number            | Center Frequency (MHz) | Insertion Loss (dB)         | Ripple (dB max.)       | VSWR                       | Input Impedance | Output Impedance |
|------------------------|------------------------|-----------------------------|------------------------|----------------------------|-----------------|------------------|
| <b>SAFEB881MFM0F00</b> | 881.5                  | 2.2 max.<br>(869MHz~894MHz) | 1.5<br>(869MHz~894MHz) | 2.0max.<br>(869MHz~894MHz) | 50ohm           | 100ohm           |
| <b>SAFEB836MAL0F00</b> | 836.5                  | 2.5 max.<br>(824MHz~849MHz) | 1.8<br>(824MHz~849MHz) | 1.9max.<br>(824MHz~849MHz) | 50ohm           | 50ohm            |
| <b>SAFEF836MAL0F00</b> | 836.5                  | 2.8 max.<br>(824MHz~849MHz) | 1.4<br>(824MHz~849MHz) | 1.9max.<br>(824MHz~849MHz) | 50ohm           | 50ohm            |