

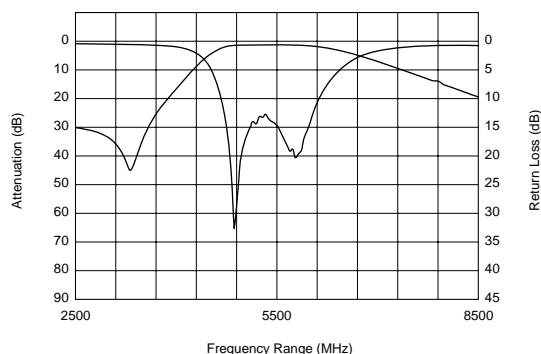
for RF/Local

Chip Multilayer LC Filters (BPF)

● LFB15(0402)_CB Series

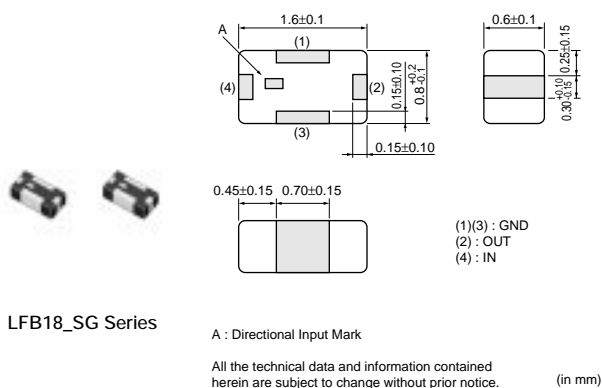


Frequency Characteristics



| 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) | Application |
|------------------|-------------------------------------|----------------------|---------------------------|-------------------------------------|--------------------------------------|-------------|
| LFB155G37CB1C032 | 5375 | fo±475 | 1.5 max. (at 25°C) | 10 min. at 3800MHz | 5 min. at 7500MHz | WLAN/BT |
| LFB155G50CB1B948 | 5500 | fo±350 | 1.1 max. (at 25°C) | 9.5 min. at 4000MHz | 4.5 min. at 7500MHz | WLAN/BT |

● LFB18(0603)_SG 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) | Application |
|------------------|-------------------------------------|----------------------|---------------------------|-------------------------------------|--------------------------------------|-------------|
| LFB182G45SG9A213 | 2450 | fo±50 | 2.2 max. (at 25°C) | 24 min. at 880~960MHz | 20 min. at 1710~1990MHz | WLAN/BT |
| LFB182G45SG9A246 | 2450 | fo±50 | 2.2 max. (at 25°C) | 24.5 min. at 880~960MHz | 12.5 min. at 1710~1990MHz | WLAN/BT |
| LFB182G45SG9A272 | 2450 | fo±50 | 1.8 max. (at 25°C) | 25 min. at 880~1000MHz | 22.5 min. at 1200~1300MHz | WLAN/BT |
| LFB182G60SGHB972 | 2600 | fo±100.0 | 1.9 max. (at 25°C) | 29.5 min. at 806~849MHz | 25 min. at 1850~1910MHz | WIMAX |
| LFB182G60SGHC149 | 2600 | fo±100.0 | 2.2 max. (at 25°C) | 29.5 min. at 806~849MHz | 30 min. at 1850~1910MHz | WIMAX |
| LFB183G60SGJC019 | 3500 | fo±200 | 1.8 max. (at 25°C) | 25.5 min. at 806~849MHz | 21.5 min. at 1850~1910MHz | WIMAX |
| LFB185G78SGAB713 | 5787.5 | fo±62.5 | 2.2 max. (at 25°C) | 16.5 min. at 4800MHz | 23.5 min. at 11450~11700MHz | WLAN/BT |

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● LFB21(0805)_CG Series

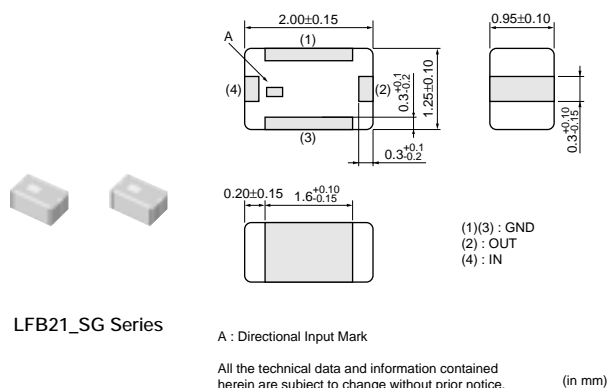


Frequency Characteristics

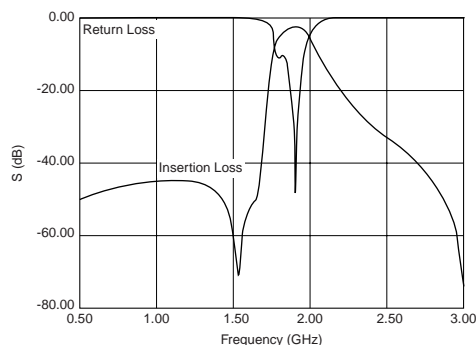


| Part Number | Nominal Center Frequency (fo) (MHz) | Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Attenuation (Absolute Value) I) (dB) | Attenuation (Absolute Value) II) (dB) | Application |
|------------------|-------------------------------------|----------------------|---------------------------|--------------------------------------|---------------------------------------|-------------|
| LFB212G45CG1C187 | 2450.00 | fo±50.00 | 0.90 max. (at 25°C) | 28 min. at 824~960MHz | 15 min. at 1710~1910MHz | WLAN/BT |
| LFB212G45CG1B982 | 2450.00 | fo±50.00 | 1.00 max. (at 25°C) | 28 min. at 824~849MHz | 17 min. at 1920~1990MHz | WLAN/BT |
| LFB212G45CG2D013 | 2450.00 | fo±50.00 | 2.50 max. (at 25°C) | 30 min. at 824~915MHz | 32 min. at 1920~1980MHz | WLAN/BT |

● LFB21(0805)_SG Series



Frequency Characteristics



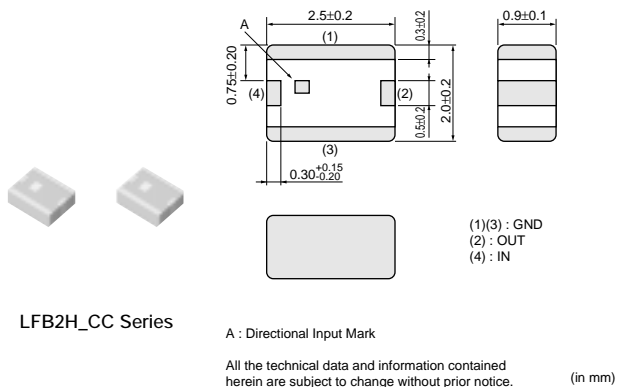
| Part Number | Nominal Center Frequency (fo) (MHz) | Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Attenuation (Absolute Value) I) (dB) | Attenuation (Absolute Value) II) (dB) | Application |
|------------------|-------------------------------------|----------------------|---------------------------|--------------------------------------|---------------------------------------|-------------|
| 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 | PHS |
| LFB212G45SG8A127 | 2450 | fo±50 | 1.5 max. (at 25°C) | 25 min. at 1200~1300MHz | 10.0 min. at 2000MHz | WLAN/BT |
| LFB212G45SG8A143 | 2450 | fo±50 | 2.7 max. (at 25°C) | 20 min. at 880~1710MHz | 30 min. at 1710~1990MHz | WLAN/BT |
| LFB212G45SG8A166 | 2450 | fo±50 | 1.4 max. (at 25°C) | 30 min. at 824~960MHz | 30 min. at 1710~1910MHz | WLAN/BT |
| LFB212G45SG8A192 | 2450 | fo±50 | 2.6 max. (at 25°C) | 40 min. at 880~960MHz | 38 min. at 1710~1990MHz | WLAN/BT |
| LFB212G49SG8B830 | 2495 | fo±195 | 2.4 max. (at 25°C) | 30 min. at 824~960MHz | 9 min. at 1710~1990MHz | WIMAX |
| LFB213G60SG8B831 | 3600 | fo±300 | 1.5 max. (at 25°C) | 32 min. at 824~960MHz | 24 min. at 1710~1990MHz | WIMAX |
| LFB215G12SG8A178 | 5125 | fo±225 | 1.5 max. (at 25°C) | 25 min. at 4200MHz | 17 min. at 2x(fo±225)MHz | WLAN/BT |
| LFB215G12SG8A183 | 5125 | fo±225 | 1.5 max. (at 25°C) | 9.0 min. at 4250MHz | 9.5 min. at 5900MHz | WLAN/BT |

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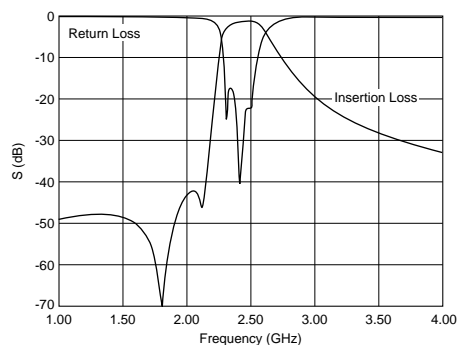
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| Part Number | Nominal Center Frequency (fo) (MHz) | Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Attenuation (Absolute Value) I (dB) | Attenuation (Absolute Value) II (dB) | Application |
|------------------|-------------------------------------|----------------------|---------------------------|-------------------------------------|--------------------------------------|-------------|
| LFB215G25SG8A144 | 5250 | fo±100.0 | 1.5 max. (at 25°C) | 30 min. at 3450MHz | - | WLAN/BT |
| LFB215G37SG8A180 | 5375 | fo±475 | 1.8 max. (at 25°C) | 30.0 min. at 500~4000MHz | 35.0 min. at 3450MHz | WLAN/BT |
| LFB215G37SG8A185 | 5375 | fo±475 | 2.2 max. (at 25°C) | 40 min. at 340~1195MHz | 21 min. at 2140~3580MHz | WLAN/BT |
| LFB215G51SG8A132 | 5512 | fo±363 | 1.9 max. (at 25°C) | 30 min. at 500~4000MHz | 20 min. at 4600MHz | WLAN/BT |
| 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 | WLAN/BT |

LFB2H(1008)_CC Series



Frequency Characteristics

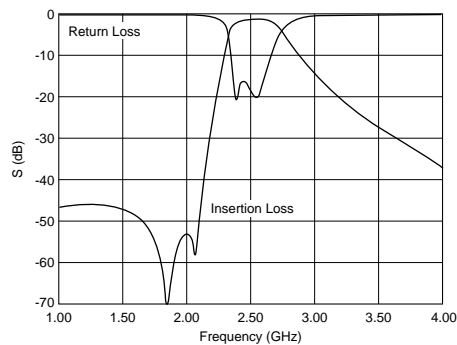


| Part Number | Nominal Center Frequency (fo) (MHz) | Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Attenuation (Absolute Value) I (dB) | Attenuation (Absolute Value) II (dB) | Application |
|------------------|-------------------------------------|----------------------|---------------------------|-------------------------------------|--------------------------------------|-------------|
| LFB2H2G45CC1D005 | 2450.00 | fo±50.00 | 1.60 max. (at 25°C) | 45 min. at 746~960MHz | 40 min. at 1920~1990MHz | WLAN/BT |

LFB2H(1008)_CG 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) | Application |
|------------------|-------------------------------------|----------------------|---------------------------|-------------------------------------|--------------------------------------|-------------|
| LFB2H2G45CG1C026 | 2450.00 | fo±50.00 | 2.10 max. (at 25°C) | 43 min. at 806~849MHz | 43 min. at 1920~1990MHz | WLAN/BT |

● LFB2H(1008)_SG/LFB31(1206)_SG Series



LFB2H_SG6 Series



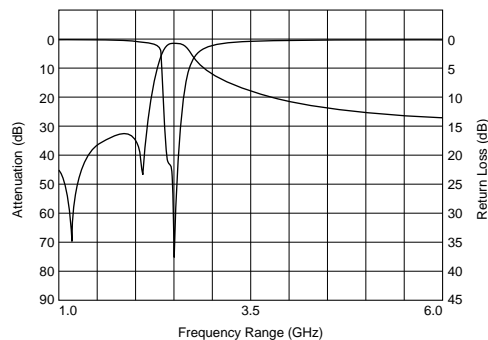
Frequency Characteristics



LFB2H_SG7 Series



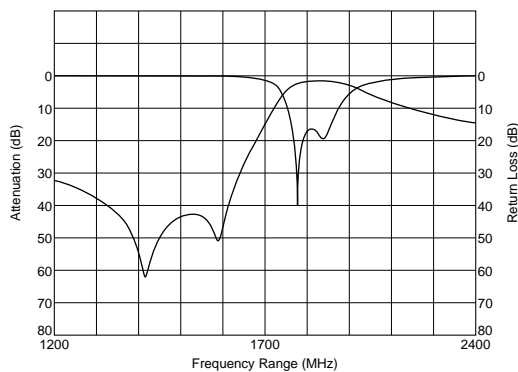
The Characteristics of Spurious



LFB31_SG1 Series



Frequency Characteristics



LFB31_SG2 Series



Frequency Characteristics



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LFB31_SG3 Series

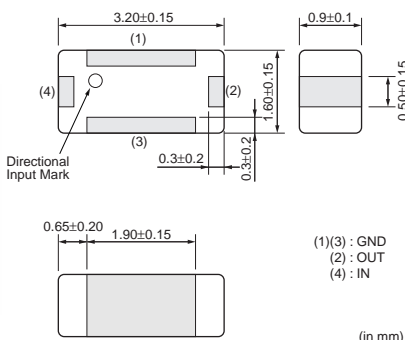


All the technical and Information contained herein are subject to change without prior notice.

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) | Application |
|------------------|-------------------------------------|----------------------|---------------------------|--------------------------------------|---------------------------------------|--------------|
| LFB2H1G90SG6A157 | 1906.5 | fo±13.5 | 1.5 max. (at 25°C) | 14 min. at 1687MHz | 6 min. at 2126MHz | PHS |
| LFB2H2G45SG7A134 | 2450 | fo±50 | 1.7 max. (at 25°C) | 25 min. at 1750MHz | 25 min. at 2100MHz | WLAN/BT |
| LFB2H2G45SG7A158 | 2450 | fo±50 | 1.2 max. (at 25°C) | 30 min. at 880~915MHz | 30 min. at 1710~1785MHz | WLAN/BT |
| LFB2H2G45SG7A159 | 2450 | fo±50 | 2.1 max. (at 25°C) | 45 min. at 880~915MHz | 48 min. at 1710~1990MHz | WLAN/BT |
| LFB2H2G45SG7B793 | 2450 | fo±50 | 3.5 max. (at 25°C) | 42 min. at 869~915MHz | 45 min. at 1710~1785MHz | WLAN/BT |
| LFB2H2G45SG7C093 | 2450 | fo±50 | 2.1 max. (at 25°C) | 45 min. at 824~915MHz | 48 min. at 1710~1990MHz | WLAN/BT |
| LFB2H2G45SGDB865 | 2450 | fo±50 | 3.4 max. (at 25°C) | 45 min. at 880~915MHz | 40 min. at 1710~1785MHz | WLAN/BT |
| LFB2H2G45SGFB914 | 2450 | fo±50 | 2.3 max. (at 25°C) | 44 min. at 824~960MHz | 40 min. at 1710~1785MHz | WLAN/BT |
| LFB2H2G54SG7B881 | 2545 | fo±145 | 2 max. (at 25°C) | 39.5 min. at 1910MHz | 39.5 min. at 1990MHz | WIMAX |
| LFB2H2G59SG7B858 | 2590 | fo±100 | 2.1 max. (at 25°C) | 40 min. at 824~915MHz | 30 min. at 2110~2170MHz | WIMAX |
| LFB2H5G78SG7A175 | 5787.5 | fo±62.5 | 2.5 max. (at 25°C) | 51.5 min. at 902~928MHz | 41 min. at 3919~4044MHz | WLAN/BT |
| 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 | PHS |
| LFB311G90SG2-797 | 1906.5 | fo±13.5 | 2.7 max. (at 25°C) | 40 min. at 1427~1454MHz | 35 min. at 1660~1687MHz | PHS |
| LFB311G95SG3A564 | 1950 | fo±30 | 3.5 max. (at 25°C) | 20 min. at 2110~2170MHz | 25 min. at 2490~2550MHz | UMTS (Band1) |

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| 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) | Application |
|------------------|-------------------------------------|----------------------|---------------------------|-------------------------------------|--------------------------------------|-------------|
| LFB312G45SG2A509 | 2450 | fo±50 | 2 max. (at 25°C) | 38 min. at 902~928MHz | 15 min. at 2100~2200MHz | WLAN/BT |
| LFB312G45SG7A572 | 2450 | fo±50 | 2.5 max. (at 25°C) | 37 min. at 902~928MHz | 20 min. at 2100~2200MHz | WLAN/BT |

● LFB31_SP 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) | Application |
|------------------|-------------------------------------|----------------------|---------------------------|-------------------------------------|--------------------------------------|-------------|
| LFB311G90SP1-798 | 1906.5 | fo±13.5 | 1.0 max. (at 25°C) | 40.0 min. at 1405~1440MHz | 12.0 min. at 1649~1680MHz | PHS |
| LFB312G45SP1A502 | 2450 | fo±50 | 1.2 max. (at 25°C) | 20 min. at 902~928MHz | 35 min. at 1500~1550MHz | WLAN/BT |

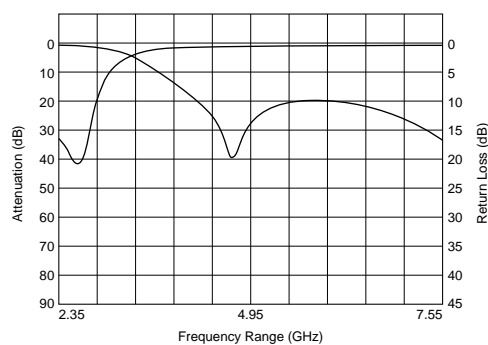
for RF/Local

Chip Multilayer LC Filters (LPF)

● LFL15_TC (0402) /LFL18_TC (0603) Series



Frequency Characteristics

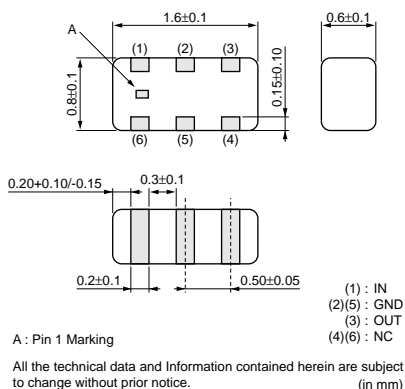


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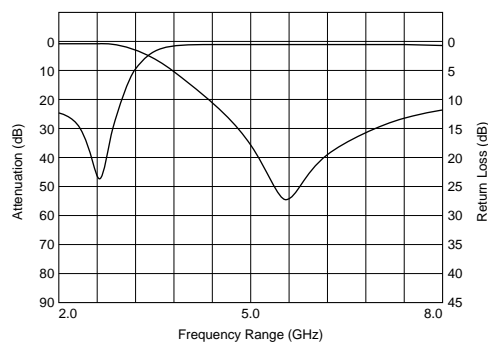
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LFL18_TC1 Series



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) | Application |
|------------------|-------------------------------------|----------------------|---------------------------|--------------------------------------|---------------------------------------|------------------------|
| LFL15620MTC1C037 | 620 | fo±150 | 0.4 max. (at 25°C) | 28 min. at 1920~1980MHz | - | CDMA |
| LFL15869MTC1B787 | 869.5 | fo±45.5 | 0.50 max. (at 25°C) | 18 min. at 2x(fo±45.5)MHz | 17 min. at 3x(fo±45.5)MHz | GSM850/900 |
| LFL151G81TC1B786 | 1810 | fo±100 | 0.60 max. (at 25°C) | 23 min. at 3420~3570MHz | 21 min. at 3700~3820MHz | GSM1800/1900 |
| LFL151G95TC1C157 | 2017.5 | fo±20 | 0.50 max. (at 25°C) | 24 min. at 2xf1 MHz | 16 min. at 3xf1 MHz | TD-SCDMA |
| 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 | WLAN/BT |
| LFL18620MTC2C181 | 620.00 | fo±150.00 | 0.60 max. (at 25°C) | 26 min. at 1429~1501MHz | 26 min. at 1565~1607MHz | CDMA700 |
| LFL18628MTC2C221 | 628.50 | fo±158.50 | 0.65 max. (at 25°C) | 26 min. at 1429~1501MHz | 30 min. at 1565~1607MHz | UMTS (Band12/13/14/17) |
| LFL182G45TC1A108 | 2450 | fo±50 | 0.37 max. (at 25°C) | 27 min. at 4800~5000MHz | 25 min. at 7200~7500MHz | WLAN/BT |
| LFL182G45TC1A202 | 2450 | fo±50 | 0.40 max. (at 25°C) | 27 min. at 4800~5000MHz | 30 min. at 7200~7500MHz | WLAN/BT |
| LFL182G45TC3B746 | 2450 | fo±50 | 0.60 max. (at 25°C) | 35 min. at 2x(fo±50)MHz | 30 min. at 3x(fo±50)MHz | WLAN/BT |
| LFL182G50TC1B905 | 2500 | fo±200 | 0.4 max. (at 25°C) | 21 min. at 4600~5400MHz | 22 min. at 6900~8100MHz | WIMAX |
| LFL182G54TC1B838 | 2545 | fo±145 | 0.4 max. (at 25°C) | 26 min. at 4800~5390MHz | 23 min. at 7200~8085MHz | WIMAX |
| LFL183G55TC2B908 | 3550 | fo±250 | 0.45 max. (at 25°C) | 17 min. at 6600~7600MHz | 20 min. at 9900~11400MHz | WIMAX |
| LFL183G55TC3C218 | 3550.00 | fo±250.00 | 0.55 max. (at 25°C) | 35 min. at 6600~7600MHz | 34 min. at 9900~11400MHz | WIMAX |

7 Filters for Communication Equipment

● LFL18_TD (0603) Series



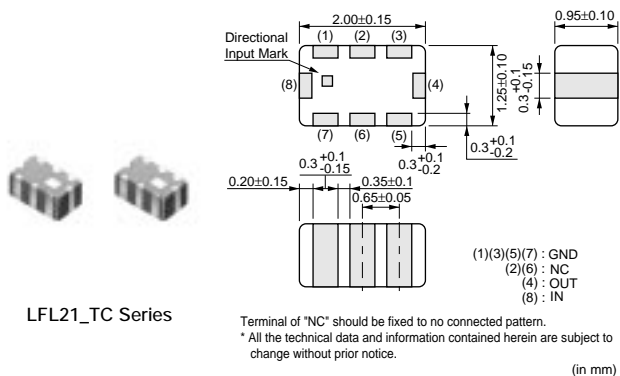
LFL18_TD Series

Frequency Characteristics



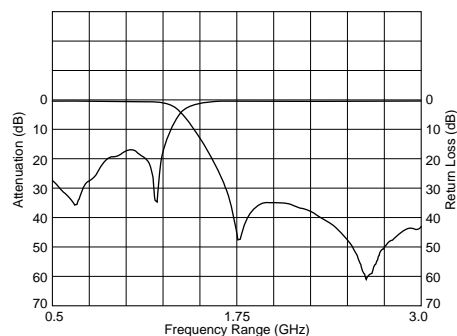
| Part Number | Nominal Center Frequency (fo) (MHz) | Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Attenuation (Absolute Value) I) (dB) | Attenuation (Absolute Value) II) (dB) | Application |
|------------------|-------------------------------------|----------------------|---------------------------|--------------------------------------|---------------------------------------|-------------|
| LFL182G45TD2C153 | 2450.00 | fo±50.00 | 0.40 max. (at 25°C) | 20 min. at 4800~5000MHz | 19 min. at 7200~7500MHz | WLAN/BT |
| LFL185G42TD1A241 | 5425.00 | fo±525.00 | 0.60 max. (at 25°C) | 25 min. at 2xfo MHz | 20 min. at 3xfo MHz | WLAN |

● LFL21_TC (0805) Series



LFL21_TC 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) | Application |
|------------------|-------------------------------------|----------------------|---------------------------|--------------------------------------|---------------------------------------|--------------|
| 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 | GSM |
| 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 | PHS |
| LFL211G92TC1A060 | 1920 | fo±70 | 0.6 max. (at 25°C) | 24 min. at 3335~3700MHz | 30 min. at 3700~3820MHz | UMTS (Band1) |
| 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 | WLAN/BT |
| 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 | WLAN/BT |
| LFL215G37TC1A210 | 5375 | fo±475 | 0.70 max. (at 25°C) | 30 min. at 2x(fo±475)MHz | 20 min. at 3x(fo±475)MHz | WLAN/BT |
| LFL215G51TC1A149 | 5512 | fo±363 | 0.70 max. (at 25°C) | 30 min. at 2x(fo±363)MHz | 20 min. at 3x(fo±363)MHz | WLAN/BT |
| 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 | WLAN/BT |

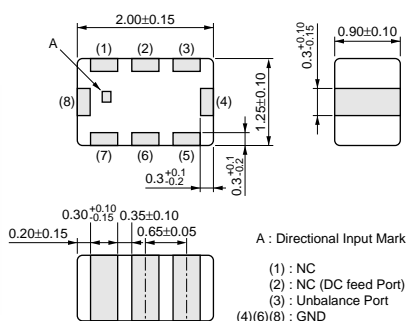
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for RF/Local

Chip Multilayer LC Filters (Balanced Filters)



LFB21_BA Series



A : Directional Input Mark

- (1) : NC
- (2) : NC (DC feed Port)
- (3) : Unbalance Port
- (4)(6)(8) : GND
- (5)(7) : Balance Port

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

| Part Number | Nominal Center Frequency (fo) (MHz) | Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Balance Impedance (Differential) (Nom.) (ohm) | Unbalance Impedance (Nom.) (ohm) | Application |
|------------------|-------------------------------------|----------------------|---------------------------|--|----------------------------------|-------------|
| LFB212G44BB1C141 | 2441 | fo±39 | 3.00 max. (at 25°C) | Conjugate match to CSR BC5-MM | 50 | WLAN/BT |
| LFB212G44BF5D107 | 2441 | fo±39 | 3.30 max. (at 25°C) | Conjugate match to ST Micro STLC2584 | 50 | WLAN/BT |
| LFB212G45BA1A220 | 2450.00 | fo±50.00 | 3.5 max. (at 25°C) | 34.2 -j95.0ohm (Differential) Source Impedance | 50 | WLAN/BT |
| LFB212G45BA1A234 | 2450.00 | fo±50.00 | 3.5 max. (at 25°C) | 50 | 50 | WLAN/BT |
| LFB212G45BA1B759 | 2450.00 | fo±50.00 | 3.5 max. (at 25°C) | 100 | 50 | WLAN/BT |
| LFB212G45BA1B763 | 2450.00 | fo±50.00 | 3.5 max. (at 25°C) | 50 +j50ohm (Differential) Source Impedance | 50 | WLAN/BT |
| LFB212G45BA1C057 | 2450 | fo±50 | 2.8 max. (at 25°C) | Conjugate match to CSR BC4-ROM | 50 | WLAN/BT |
| LFB212G45BA1C155 | 2450 | fo±50 | 2.80 max. (at 25°C) | Conjugate match to CSR BC4-ROM | 50 | WLAN/BT |
| LFB212G45BA4D007 | 2450 | fo±50 | 3.30 max. (at 25°C) | Conjugate match to TI BRF6300/6350 | 50 | WLAN/BT |
| LFB212G45BAAD023 | 2450 | fo±50 | 3.10 max. (at 25°C) | Conjugate match to Mediatek MT6611 | 50 | WLAN/BT |
| LFB212G45BAAD071 | 2450 | fo±50 | 3.50 max. (at 25°C) | Conjugate match to CSR BC6-ROM | 50 | WLAN/BT |
| LFB212G45BAAD084 | 2450.00 | fo±50.00 | 2.8 max. (at 25°C) | Conjugate match to MTK MT6611 | 50 | WLAN/BT |
| LFB212G45BB1D126 | 2450.00 | fo±50.00 | 2.8 max. (at 25°C) | Conjugate match to MTK MT6612/6616 | 50 | WLAN/BT |
| LFB213G55BA1B974 | 3550 | fo±250 | 3.2 max. (at 25°C) | 100 | 50 | WIMAX |
| LFB215G37BA1A233 | 5375.00 | fo±475.00 | 2.8 max. (at 25°C) | 100 | 50 | WLAN/BT |
| LFB2H2G44BB5B754 | 2441.75 | fo±41.75 | 3.3 max. (at 25°C) | 120 | 50 | WLAN/BT |
| LFB2H2G45BB1A221 | 2450 | fo±50 | 3.0 max. (at 25°C) | 75 | 50 | WLAN/BT |
| LFB2H2G45BB1A243 | 2450 | fo±50 | 3.0 max. (at 25°C) | 100 | 50 | WLAN/BT |
| LFB2H2G60BB1B973 | 2600 | fo±100 | 3.3 max. (at 25°C) | 100 | 50 | WIMAX |
| LFB2H2G60BB1C106 | 2600 | fo±100 | 3.3 max. (at 25°C) | 50 | 50 | WIMAX |