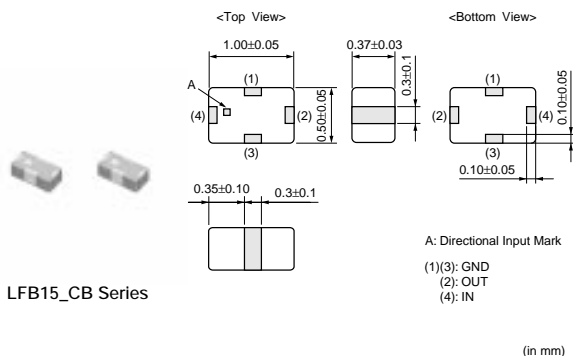


for RF/Local

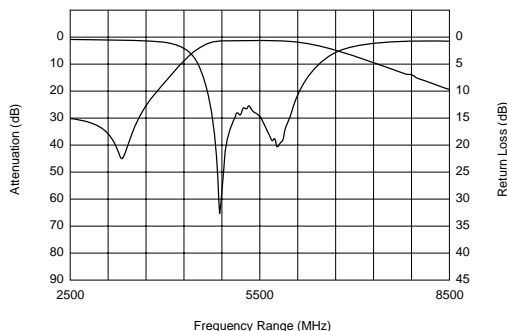
Chip Multilayer LC Filters (BPF)

● LFB15(0402)_CB Series



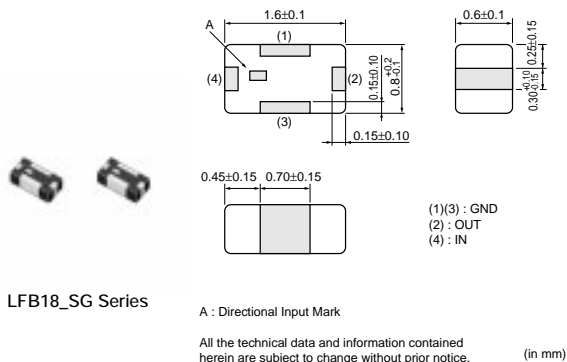
LFB15_CB Series

Frequency Characteristics



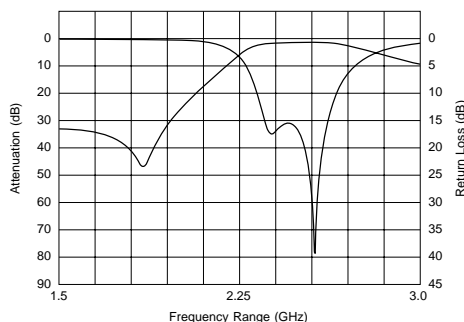
| Part Number | Nominal Center Frequency (fo) (MHz) | Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Attenuation (Absolute Value) I) (dB) | Attenuation (Absolute Value) II) (dB) | Application |
|------------------|-------------------------------------|----------------------|---------------------------|--------------------------------------|---------------------------------------|-------------|
| 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



LFB18_SG Series

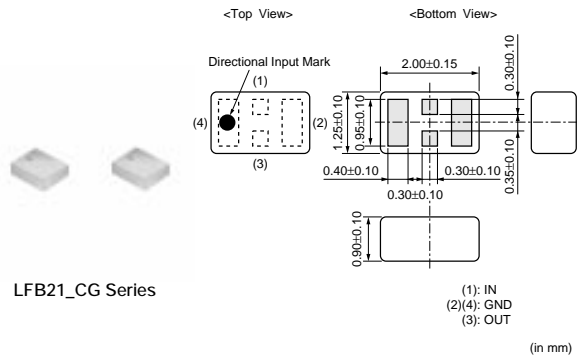
Frequency Characteristics



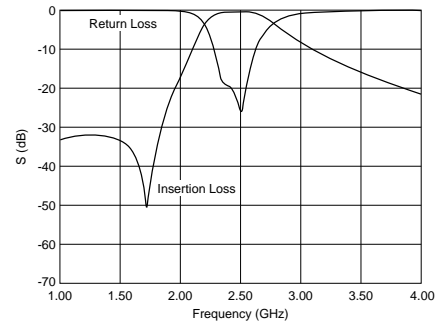
| Part Number | Nominal Center Frequency (fo) (MHz) | Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Attenuation (Absolute Value) I) (dB) | Attenuation (Absolute Value) II) (dB) | Application |
|------------------|-------------------------------------|----------------------|---------------------------|--------------------------------------|---------------------------------------|-------------|
| 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

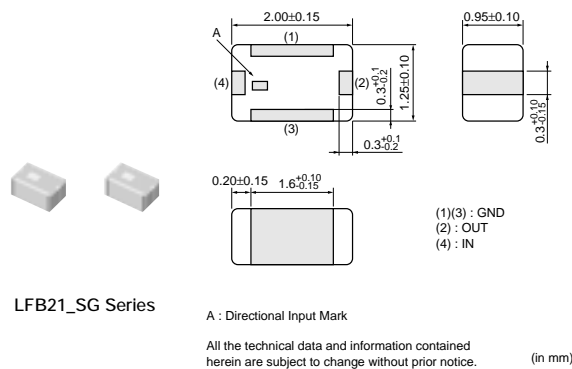


Frequency Characteristics

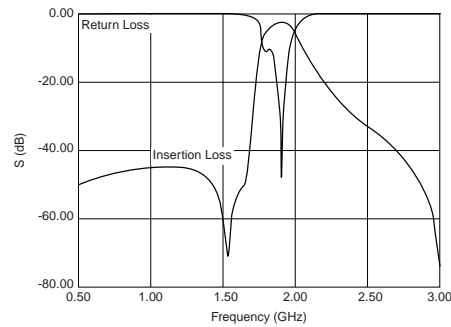


| Part Number | Nominal Center Frequency (fo) (MHz) | Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Attenuation (Absolute Value) I) (dB) | Attenuation (Absolute Value) II) (dB) | Application |
|------------------|-------------------------------------|----------------------|---------------------------|--------------------------------------|---------------------------------------|-------------|
| LFB212G45CG1B187 | 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 |

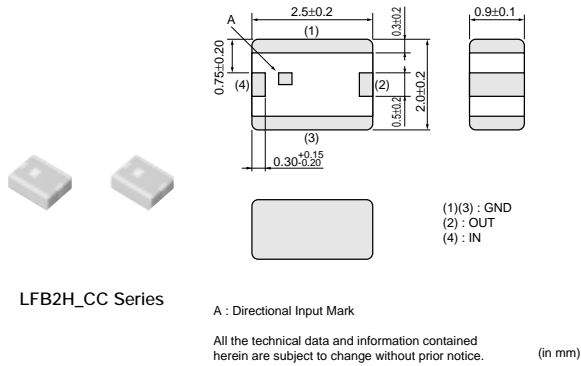
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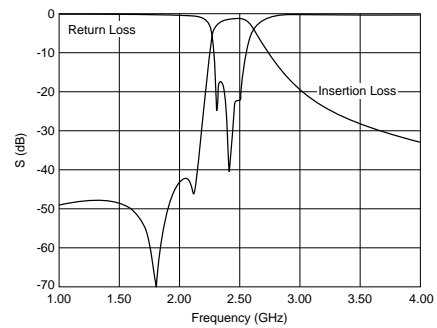
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| Part Number | Nominal Center Frequency (fo) (MHz) | Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Attenuation (Absolute Value) I) (dB) | Attenuation (Absolute Value) II) (dB) | Application |
|------------------|-------------------------------------|----------------------|---------------------------|--------------------------------------|---------------------------------------|-------------|
| 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

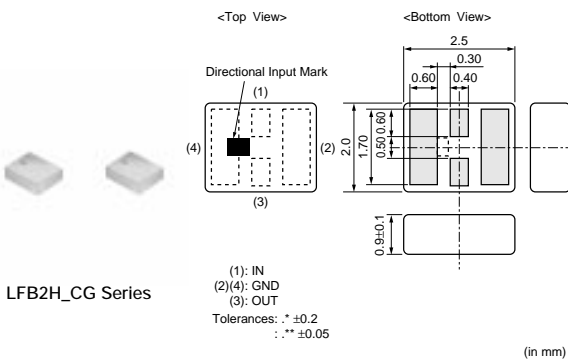


Frequency Characteristics

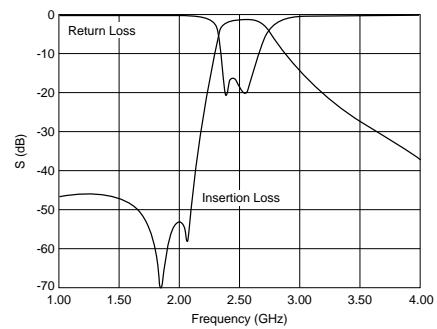


| Part Number | Nominal Center Frequency (fo) (MHz) | Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Attenuation (Absolute Value) I) (dB) | Attenuation (Absolute Value) II) (dB) | Application |
|------------------|-------------------------------------|----------------------|---------------------------|--------------------------------------|---------------------------------------|-------------|
| 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



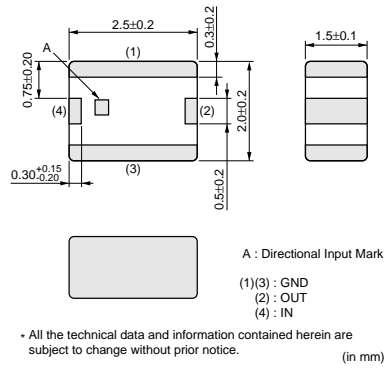
| Part Number | Nominal Center Frequency (fo) (MHz) | Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Attenuation (Absolute Value) I) (dB) | Attenuation (Absolute Value) II) (dB) | Application |
|------------------|-------------------------------------|----------------------|---------------------------|--------------------------------------|---------------------------------------|-------------|
| LFB2H2G45CG1C026 | 2450.00 | fo±50.00 | 2.10 max. (at 25°C) | 43 min. at 806~849MHz | 43 min. at 1920~1990MHz | WLAN/BT |

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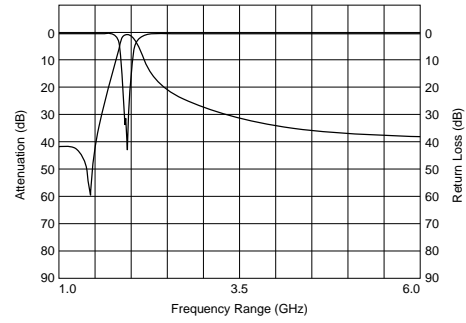
● LFB2H(1008)_SG/LFB31(1206)_SG Series



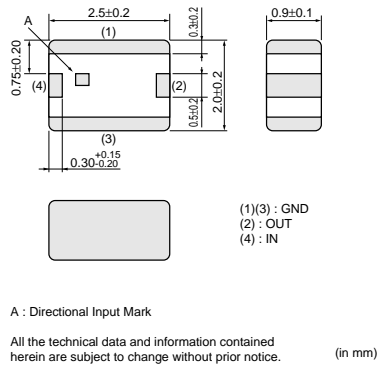
LFB2H_SG6 Series



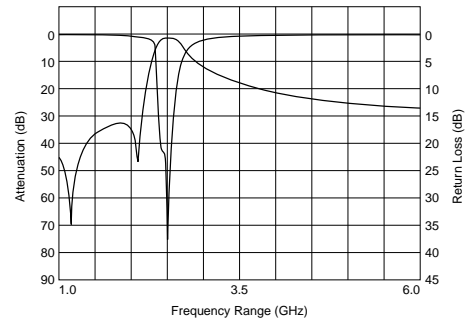
Frequency Characteristics



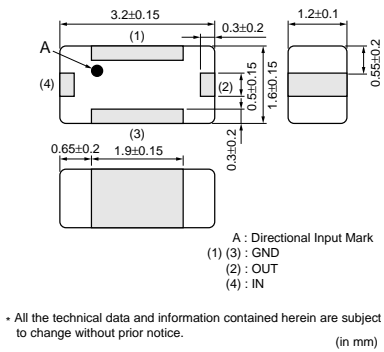
LFB2H_SG7 Series



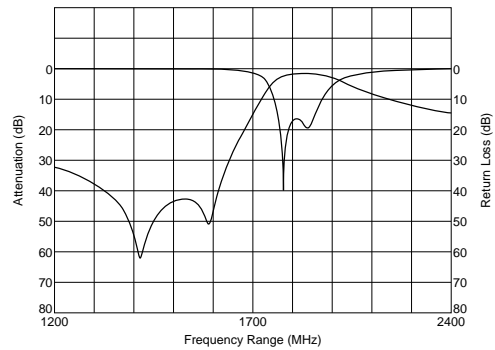
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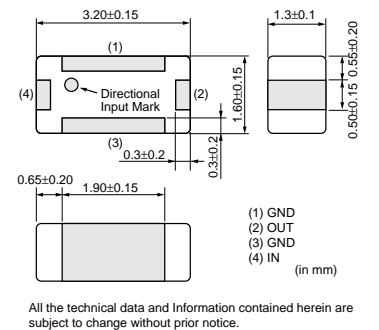
LFB31_SG1 Series



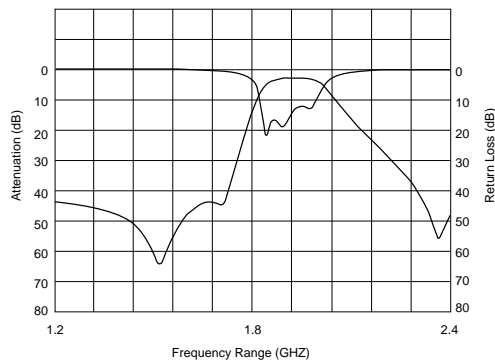
Frequency Characteristics



LFB31_SG2 Series



Frequency Characteristics

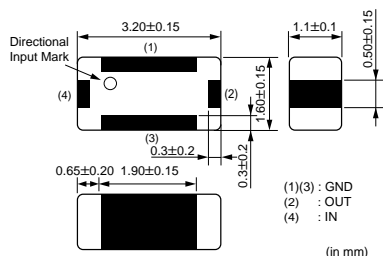


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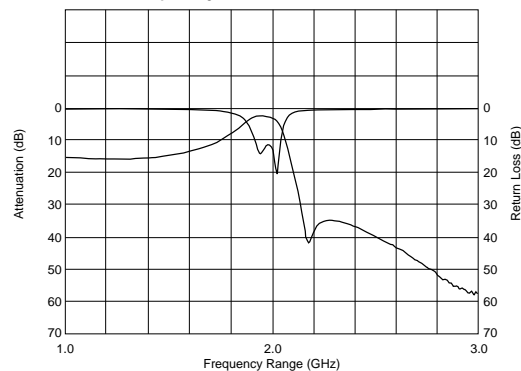
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LFB31_SG3 Series

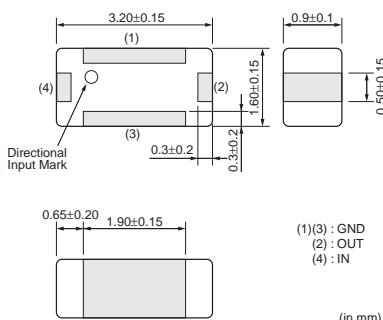


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Frequency Characteristics

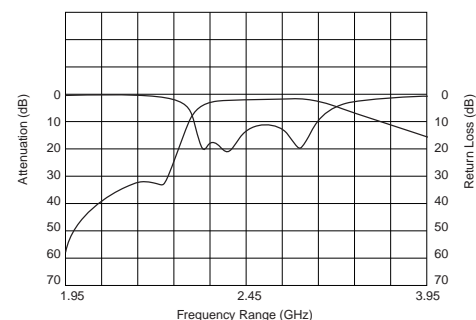


LFB31_SG7 Series



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) |

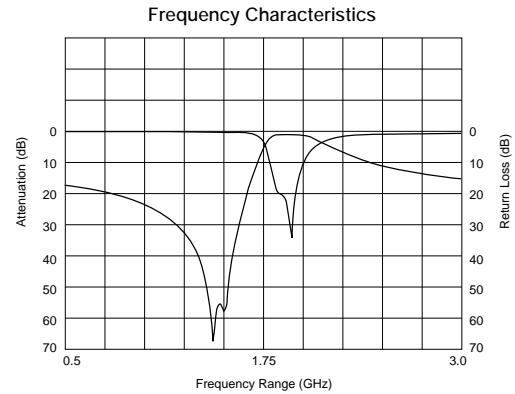
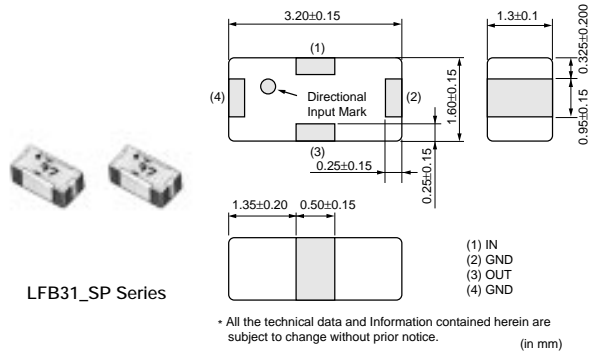
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| Part Number | Nominal Center Frequency (fo) (MHz) | Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Attenuation (Absolute Value) I) (dB) | Attenuation (Absolute Value) II) (dB) | Application |
|------------------|-------------------------------------|----------------------|---------------------------|--------------------------------------|---------------------------------------|-------------|
| 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)

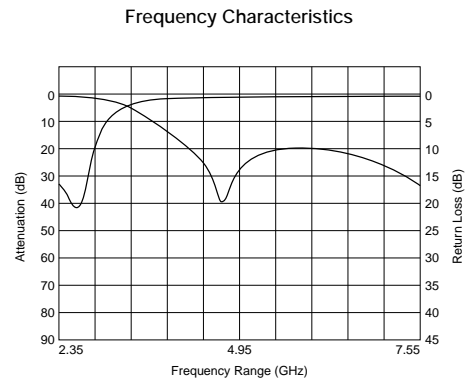
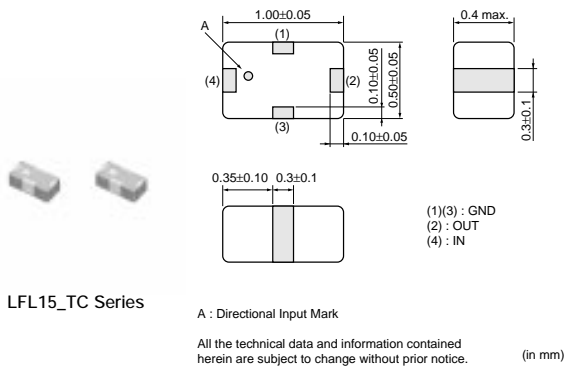


| Part Number | Nominal Center Frequency (fo) (MHz) | Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Attenuation (Absolute Value) I) (dB) | Attenuation (Absolute Value) II) (dB) | Application |
|------------------|-------------------------------------|----------------------|---------------------------|--------------------------------------|---------------------------------------|-------------|
| 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 (LFP)

● LFL15_TC (0402) /LFL18_TC (0603) Series

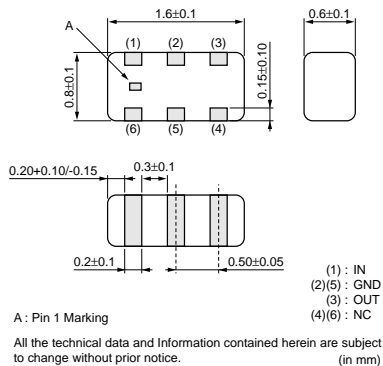


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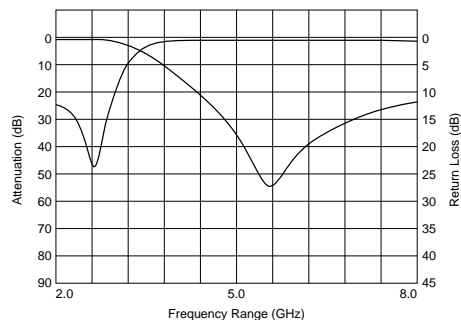
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LFL18_TC1 Series



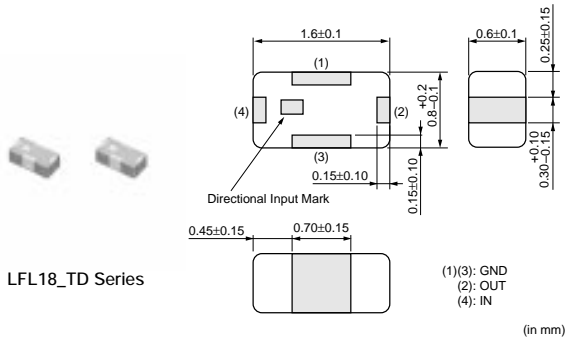
Frequency Characteristics



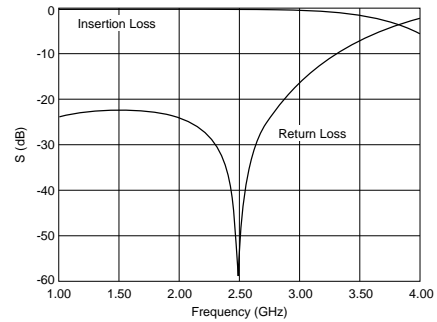
| Part Number | Nominal Center Frequency (fo) (MHz) | Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Attenuation (Absolute Value) I) (dB) | Attenuation (Absolute Value) II) (dB) | Application |
|------------------|-------------------------------------|----------------------|---------------------------|--------------------------------------|---------------------------------------|------------------------|
| 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 |

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● LFL18_TD (0603) Series

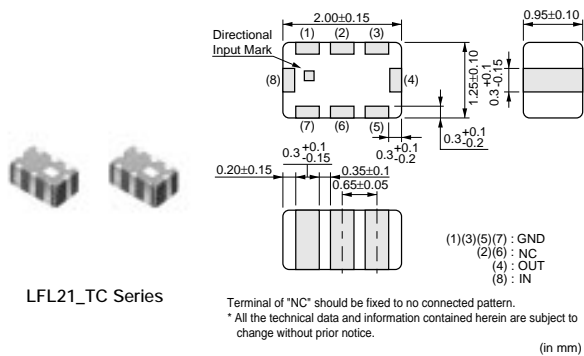


Frequency Characteristics

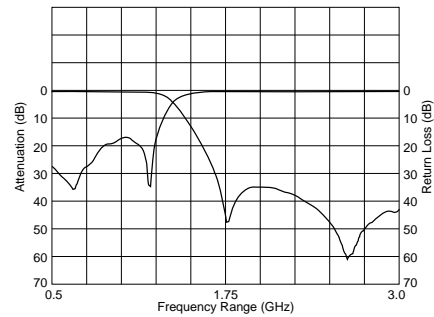


| Part Number | Nominal Center Frequency (fo) (MHz) | Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Attenuation (Absolute Value) I) (dB) | Attenuation (Absolute Value) II) (dB) | Application |
|------------------|-------------------------------------|----------------------|---------------------------|--------------------------------------|---------------------------------------|-------------|
| 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



Frequency Characteristics

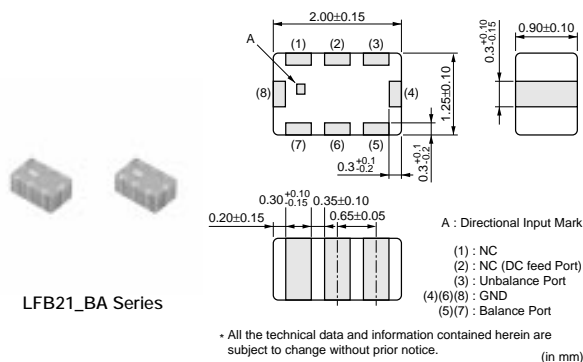


| Part Number | Nominal Center Frequency (fo) (MHz) | Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Attenuation (Absolute Value) I) (dB) | Attenuation (Absolute Value) II) (dB) | Application |
|------------------|-------------------------------------|----------------------|---------------------------|--------------------------------------|---------------------------------------|--------------|
| 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)



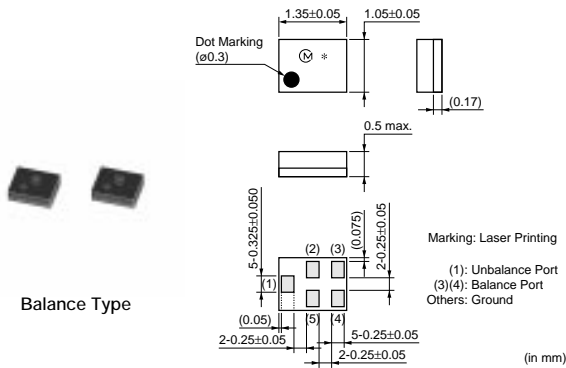
| Part Number | Nominal Center Frequency (fo) (MHz) | Bandwidth (BW) (MHz) | Insertion Loss in BW (dB) | Balance Impedance (Differential) (Nom.) (ohm) | Unbalance Impedance (Nom.) (ohm) | Application |
|------------------|-------------------------------------|----------------------|---------------------------|--|----------------------------------|-------------|
| 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 |

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for RF/Local

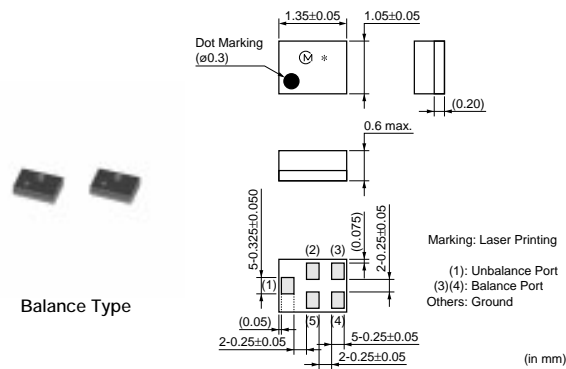
SAW Filters

● SAFEA Series

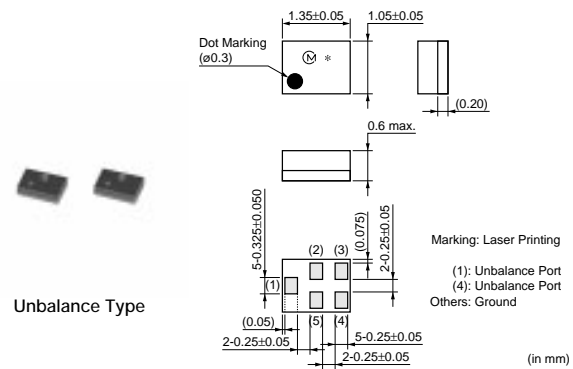


Balance Type

● SAFEB Series

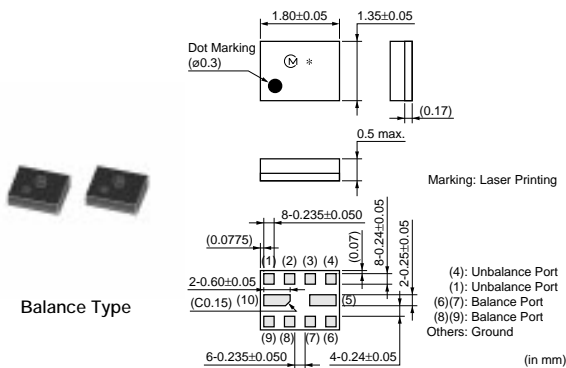


Balance Type

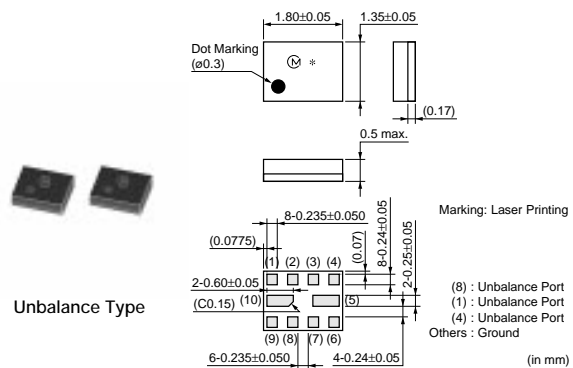


Unbalance Type

● SAWEN Series



Balance Type



Unbalance Type

| Part Number | Application | Center Frequency (MHz) | Insertion Loss (dB max.) | Ripple (dB max.) | VSWR | Input Impedance | Output Impedance |
|-----------------|-------------|------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------|------------------------|
| SAFEB1G57KE0F00 | GPS | 1575.5 | 1.3 (1573.92MHz to 1576.92MHz) | 0.6 (1573.92MHz to 1576.92MHz) | 1.7 (1573.92MHz to 1576.92MHz) | 50Ω | 50Ω |
| SAFEB1G57FM0F00 | GPS | 1575.42 | 2.3 (1574.22MHz to 1576.62MHz) | 0.6 (1574.22MHz to 1576.62MHz) | 1.5 (1574.22MHz to 1576.62MHz) | 50Ω | 100Ω (Balance) |
| SAFEB1G57KB0F00 | GPS | 1575.42 | 0.8 (1574.22MHz to 1576.62MHz) | 0.5 (1574.22MHz to 1576.62MHz) | 2.0 (1574.22MHz to 1576.62MHz) | 50Ω | 50Ω |
| SAFEA881MFL0F00 | GSM850 | 881.5 | 1.9 (869MHz to 894MHz) | 1.0 (869MHz to 894MHz) | 1.7 (869MHz to 894MHz) | 50Ω | 150Ω/82nH (Balance) |
| SAFEA942MFL0F00 | GSM900 | 942.5 | 2.3 (925MHz to 960MHz) | 1.4 (925MHz to 960MHz) | 2.0 (925MHz to 960MHz) | 50Ω | 150Ω/82nH (Balance) |

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Continued from the preceding page.

| Part Number | Application | Center Frequency (MHz) | Insertion Loss (dB max.) | Ripple (dB max.) | VSWR | Input Impedance | Output Impedance |
|--------------------------------|--------------|------------------------|--|--|-----------------------------------|--------------------------|------------------------|
| SAFEA1G84FA0F00 | GSM1800 | 1842.5 | 2.2 (1805MHz to 1880MHz) | 1.5 (1805MHz to 1880MHz) | 2.1 (1805MHz to 1880MHz) | 50Ω | 150Ω/18nH (Balance) |
| SAFEA1G96FA0F00 | GSM1900 | 1960 | 2.6 (1930MHz to 1990MHz) | 1.7 (1930MHz to 1990MHz) | 2.2 (1930MHz to 1990MHz) | 50Ω | 150Ω/27nH (Balance) |
| SAWEN881MCY0F00(881.5) | GSM850/900 | 881.5 | 2.5 (869MHz to 894MHz) | 1.5 (869MHz to 894MHz) | 2.0 (869MHz to 894MHz) | 50Ω/8.2nH (Unbalance) | 150Ω/56nH (Balance) |
| SAWEN881MCY0F00(942.5) | GSM850/900 | 942.5 | 3.2 (925MHz to 960MHz) | 1.5 (925MHz to 960MHz) | 2.1 (925MHz to 960MHz) | 50Ω/8.2nH (Unbalance) | 150Ω/47nH (Balance) |
| SAWEN881MCN0F00(881.5) | GSM850/900 | 881.5 | 2.0 (869MHz to 894MHz) | 1.1 (869MHz to 894MHz) | 2.0 (869MHz to 894MHz) | 50Ω | 150Ω/82nH (Balance) |
| SAWEN881MCN0F00(942.5) | GSM850/900 | 942.5 | 2.4 (925MHz to 960MHz) | 1.5 (925MHz to 960MHz) | 2.1 (925MHz to 960MHz) | 50Ω | 150Ω/82nH (Balance) |
| SAWEN881MCM2F00(881.5) | GSM850/1900 | 881.5 | 2.0 (869MHz to 894MHz) | 1.1 (869MHz to 894MHz) | 2.0 (869MHz to 894MHz) | 50Ω | 150Ω/82nH (Balance) |
| SAWEN881MCM2F00(1960) | GSM850/1900 | 1960 | 2.6 (1930MHz to 1990MHz) | 1.8 (1930MHz to 1990MHz) | 2.2 (1930MHz to 1990MHz) | 50Ω | 150Ω/22nH (Balance) |
| SAWEN942MCN0F00(942.5) | GSM900/1800 | 942.5 | 2.3 (925MHz to 960MHz) | 1.5 (925MHz to 960MHz) | 2.0 (925MHz to 960MHz) | 50Ω | 150Ω/82nH (Balance) |
| SAWEN942MCN0F00(1842.5) | GSM900/1800 | 1842.5 | 2.5 (1805MHz to 1880MHz) | 1.5 (1805MHz to 1880MHz) | 2.3 (1805MHz to 1880MHz) | 50Ω | 150Ω/15nH (Balance) |
| SAWEN1G84CW0F00(1842.5) | GSM1800/1900 | 1842.5 | 3.0 (1805MHz to 1880MHz) | 1.5 (1805MHz to 1880MHz) | 2.3 (1805MHz to 1880MHz) | 50Ω/3.3nH (Unbalance) | 150Ω/15nH (Balance) |
| SAWEN1G84CW0F00(1960) | GSM1800/1900 | 1960 | 3.0 (1930MHz to 1990MHz) | 1.8 (1930MHz to 1990MHz) | 2.2 (1930MHz to 1990MHz) | 50Ω/3.3nH (Unbalance) | 150Ω/22nH (Balance) |
| SAWEN1G84CN0F00(1842.5) | GSM1800/1900 | 1842.5 | 2.5 (1805MHz to 1880MHz) | 1.8 (1805MHz to 1880MHz) | 2.2 (1805MHz to 1880MHz) | 50Ω | 150Ω/15nH (Balance) |
| SAWEN1G84CN0F00(1960) | GSM1800/1900 | 1960 | 2.6 (1930MHz to 1990MHz) | 1.8 (1930MHz to 1990MHz) | 2.2 (1930MHz to 1990MHz) | 50Ω | 150Ω/22nH (Balance) |
| SAFEA859MCL0F00 | JCDMA | 859 | 2.9 (843MHz to 875MHz) | 2.0 (843MHz to 875MHz) | 2.3 (843MHz to 875MHz) | 50Ω | 100Ω (Balance) |
| SAFEB911MAL0F00 | JCDMA | 911.5 | 2.2 (898MHz to 925MHz) | 1.2 (898MHz to 925MHz) | 2.0 (898MHz to 925MHz) | 50Ω | 50Ω |
| SAWEN827MAA0F00(827) | JCDMA | 827 | 3.0 (824MHz to 830MHz) | 1.3 (824MHz to 830MHz) | 2.0 (824MHz to 830MHz) | 50Ω | 50Ω |
| SAWEN827MAA0F00(911.5) | JCDMA | 911.5 | 2.8 (898MHz to 925MHz) | 1.2 (898MHz to 925MHz) | 2.0 (898MHz to 925MHz) | 50Ω | 50Ω/10nH (Balance) |
| SAWEN859MCM3F00(859) | JCDMA | 859 | 2.9 (843MHz to 875MHz) | 2.0 (843MHz to 875MHz) | 2.3 (843MHz to 875MHz) | 50Ω | 100Ω (Balance) |
| SAWEN859MCM3F00(881.5) | JCDMA | 881.5 | 2.2 (869MHz to 849MHz) | 1.5 (843MHz to 875MHz) | 2.1 (843MHz to 875MHz) | 50Ω | 100Ω (Balance) |
| SAFEA2G12AL0F00 | JCDMA | 2120 | 2.5 (2110MHz to 2130MHz) | 1.0 (2110MHz to 2130MHz) | 1.6 (2110MHz to 2130MHz) | 50Ω | 50Ω |
| SAFEA2G12FC0F00 | JCDMA | 2120 | 3.1 (2110MHz to 2130MHz) | 1.1 (2110MHz to 2130MHz) | 2.0 (2110MHz to 2130MHz) | 50Ω | 100Ω (Balance) |
| SAFEA1G88KB7F00 | CDMA1900 | 1880 | 3.8 (1850MHz to 1910MHz) 3.4 (1850.5MHz to 1909.5MHz) | 2.7 (1850MHz to 1910MHz) 2.5 (1850.5MHz to 1909.5MHz) | 2.0 (1850MHz to 1910MHz) | 50Ω | 50Ω |
| SAFEB1G96AL0F00 | CDMA1900 | 1960 | 4.0 (1930.48MHz to 1989.52MHz) | 2.3 (1930.48MHz to 1989.52MHz) | 2.2 (1930.48MHz to 1989.52MHz) | 50Ω | 50Ω |
| SAFEB1G96FL0F00 | CDMA1900 | 1960 | 3.3 (1930MHz to 1990MHz) | 1.8 (1930MHz to 1990MHz) | 2.4 (1930MHz to 1990MHz) | 50Ω | 100Ω (Balance) |
| SAFEB2G14AL0F00 | WCDMA | 2140 | 3.5 (2110MHz to 2170MHz) | 1.6 (2110MHz to 2170MHz) | 2.0 (2110MHz to 2170MHz) | 50Ω | 50Ω |
| SAFEB2G14FB0F00 | WCDMA | 2140 | 2.5 (2110MHz to 2170MHz) | 1.5 (2110MHz to 2170MHz) | 1.9 (2110MHz to 2170MHz) | 50Ω | 100Ω/27nH (Balance) |

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| Part Number | Application | Center Frequency (MHz) | Insertion Loss (dB max.) | Ripple (dB max.) | VSWR | Input Impedance | Output Impedance |
|-------------------------------|-------------|------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------|---------------------------|
| SAFEB1G95KA0F00 | WCDMA | 1950 | 2.9 (1920MHz to 1980MHz) | 2.0 (1920MHz to 1980MHz) | 2.0 (1920MHz to 1980MHz) | 50Ω | 50Ω |
| SAFEB881MFM0F00 | CDMA800 | 881.5 | 2.2 (869MHz to 894MHz) | 1.5 (869MHz to 894MHz) | 2.0 (869MHz to 894MHz) | 50Ω | 100Ω (Balance) |
| SAFEB836MAL0F00 | CDMA800 | 836.5 | 2.5 (824MHz to 849MHz) | 1.8 (824MHz to 849MHz) | 1.9 (824MHz to 849MHz) | 50Ω | 50Ω |
| SAFEA859MAL0F00 | CDMA800 | 859 | 3.2 (843MHz to 875MHz) | 1.8 (843MHz to 875MHz) | 2.0 (843MHz to 875MHz) | 50Ω | 50Ω |
| SAWEN836MAA0F00(836.5) | CDMA800 | 836.5 | 2.8 (824MHz to 849MHz) | 1.4 (824MHz to 849MHz) | 2.0 (824MHz to 849MHz) | 50Ω//10nH | 50Ω |
| SAWEN836MAA0F00(911.5) | CDMA800 | 911.5 | 2.4 (898MHz to 925MHz) | 1.2 (898MHz to 925MHz) | 2.0 (898MHz to 925MHz) | 50Ω//10nH | 50Ω |
| SAFEB1G93AL0F00 | CDMA2000 | 1930 | 2.9 (1920MHz to 1930MHz) | 1.5 (1920MHz to 1930MHz) | 1.8 (1920MHz to 1930MHz) | 50Ω | 50Ω |
| SAFEA2G44AA0F00 | Bluetooth | 2441.75 | 2.8 (2400MHz to 2483.5MHz) | 1.5 (2400MHz to 2483.5MHz) | 2.4 (2400MHz to 2483.5MHz) | 50Ω | 50Ω |
| SAFEA2G45AD0F00 | WLAN | 2450 | 2.8 (2400MHz to 2500MHz) | 1.8 (2400MHz to 2500MHz) | 2.4 (2400MHz to 2500MHz) | 50Ω//4.3nH (Unbalance) | 50Ω//3.0nH (Unbalance) |
| SAFEA2G45RA0F00 | WLAN | 2450 | 2.6 (2400MHz to 2500MHz) | 1.8 (2400MHz to 2500MHz) | 2.4 (2400MHz to 2500MHz) | 50Ω//4.3nH (Unbalance) | 50Ω//3.0nH (Unbalance) |