

HIGH FREQUENCY MULTILAYER BAND PASS FILTER

■ STRUCTURE AND PIN ASSOCIATED

| STRUCTURE A | STRUCTURE B | STRUCTURE C | STRUCTURE D | STRUCTURE E | STRUCTURE F |
|-------------|-------------|-------------|-------------|-------------|-------------|
|             |             |             |             |             |             |
|             |             |             |             |             |             |

HIGH FREQUENCY  
MULTILAYER BAND PASS FILTER

■ STRUCTURE AND DIMENSION

Unit: mm

| Structure<br>Dimension | L         | W         | T         | A          | B          | C          | D         | E          | F          | G          | H          | I          |
|------------------------|-----------|-----------|-----------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|
| A                      | 2.50±0.20 | 2.00±0.20 | 0.70±0.10 | 0.20±0.20  | 0.55±0.20  | 0.50±0.20  | 0.25±0.20 | 0.20±0.20  | -          | -          | -          | -          |
|                        |           |           | 0.90±0.10 | 0.20±0.20  | 0.55±0.20  | 0.50±0.20  | 0.20±0.20 | 0.20±0.20  | -          | -          | -          | -          |
|                        |           |           | 1.00±0.10 | 0.20±0.20  | 0.55±0.20  | 0.50±0.20  | 0.25±0.20 | 0.20±0.20  | -          | -          | -          | -          |
|                        |           |           | 1.05±0.10 | 0.25±0.20  | 0.50±0.20  | 0.50±0.20  | 0.25±0.20 | 0.25±0.20  | -          | -          | -          | -          |
|                        |           |           | 1.20±0.10 | 0.25±0.20  | 0.50±0.20  | 0.50±0.20  | 0.25±0.20 | 0.25±0.20  | -          | -          | -          | -          |
|                        |           | 2.05±0.20 | 0.70±0.20 | 0.25±0.20  | 0.50±0.20  | 0.50±0.20  | 0.25±0.20 | 0.25±0.20  | -          | -          | -          | -          |
|                        | 3.20±0.20 | 2.50±0.10 | 1.50±0.10 | 0.20±0.20  | 0.75±0.20  | 0.60±0.20  | 0.20±0.15 | 0.40±0.20  | -          | -          | -          | -          |
| B                      | 1.00±0.10 | 0.50±0.10 | 0.40±0.10 | 0.35±0.10  | 0.30±0.10  | 0.15±0.10  | 0.15±0.10 | 0.30±0.10  | -          | -          | -          | -          |
|                        | 1.60±0.15 | 0.80±0.15 | 0.50±0.10 | 0.45±0.15  | 0.70±0.15  | 0.20±0.15  | 0.20±0.15 | 0.30±0.15  | 0.25±0.15  | -          | -          | -          |
|                        |           |           | 0.60±0.10 | 0.45±0.15  | 0.70±0.15  | 0.20±0.15  | 0.20±0.15 | 0.30±0.15  | 0.25±0.15  | -          | -          | -          |
|                        |           |           | 0.70±0.10 | 0.40±0.15  | 0.80±0.15  | 0.20±0.10  | 0.20±0.10 | 0.30±0.15  | 0.25±0.15  | -          | -          | -          |
|                        |           |           | 0.70±0.10 | 0.45±0.15  | 0.70±0.15  | 0.20±0.10  | 0.20±0.10 | 0.30±0.15  | 0.25±0.15  | -          | -          | -          |
|                        | 2.00±0.15 | 1.20±0.15 | 0.50±0.10 | 0.40±0.15  | 0.80±0.15  | 0.20±0.10  | 0.20±0.10 | 0.30±0.15  | 0.45±0.15  | -          | -          | -          |
|                        |           |           | 0.90±0.10 | 0.20±0.15  | 1.60±0.15  | 0.20±0.15  | 0.20±0.15 | 0.40±0.15  | 0.40±0.15  | -          | -          | -          |
|                        |           |           |           | 0.20±0.15  | 1.60±0.15  | 0.25±0.15  | 0.25±0.15 | 0.30±0.15  | 0.45±0.15  | -          | -          | -          |
|                        |           |           |           | 0.45±0.15  | 1.10±0.15  | 0.25±0.15  | 0.25±0.15 | 0.30±0.15  | 0.45±0.15  | -          | -          | -          |
|                        |           |           |           | 0.50±0.15  | 1.00±0.15  | 0.20±0.15  | 0.20±0.15 | 0.30±0.15  | 0.45±0.15  | -          | -          | -          |
|                        |           | 1.25±0.15 | 0.60±0.10 | 0.50±0.15  | 1.00±0.15  | 0.25±0.15  | 0.25±0.15 | 0.30±0.15  | 0.475±0.15 | -          | -          | -          |
|                        |           |           | 0.80±0.10 | 0.50±0.15  | 1.00±0.15  | 0.25±0.15  | 0.25±0.15 | 0.30±0.15  | 0.475±0.15 | -          | -          | -          |
|                        |           |           | 0.90±0.10 | 0.50±0.15  | 1.00±0.15  | 0.25±0.15  | 0.25±0.15 | 0.30±0.15  | 0.475±0.15 | -          | -          | -          |
|                        |           |           | 0.95±0.10 | 0.35±0.15  | 1.30±0.15  | 0.20±0.15  | 0.20±0.15 | 0.30±0.15  | 0.475±0.15 | -          | -          | -          |
|                        |           |           |           | 0.35±0.15  | 1.30±0.15  | 0.25±0.15  | 0.25±0.15 | 0.30±0.15  | 0.475±0.15 | -          | -          | -          |
|                        |           |           |           | 0.50±0.15  | 1.00±0.15  | 0.25±0.15  | 0.25±0.15 | 0.30±0.15  | 0.475±0.15 | -          | -          | -          |
|                        |           |           | 0.50±0.15 | 1.00±0.15  | 0.25±0.15  | 0.25±0.15  | 0.30±0.15 | 0.475±0.15 | -          | -          | -          | -          |
| C                      | 2.00±0.15 | 1.20±0.20 | 0.55±0.10 | 0.40±0.20  | 0.40±0.20  | 0.40±0.20  | 0.20±0.10 | -          | -          | -          | -          | -          |
|                        |           |           | 0.60±0.10 | 0.40±0.20  | 0.40±0.20  | 0.40±0.20  | 0.20±0.10 | -          | -          | -          | -          | -          |
|                        |           |           | 0.80±0.10 | 0.40±0.20  | 0.40±0.20  | 0.40±0.20  | 0.20±0.10 | -          | -          | -          | -          | -          |
| D                      | 1.60±0.15 | 0.80±0.15 | 0.60±0.10 | 0.55±0.10  | 0.25±0.10  | 0.23±0.10  | 0.40±0.10 | 0.12±0.10  | 0.125±0.10 | -          | -          | -          |
|                        | 2.00±0.15 | 1.25±0.10 | 0.45±0.10 | 0.95±0.10  | 0.275±0.20 | 0.25±0.10  | 0.60±0.10 | 0.175±0.10 | 0.15±0.10  | -          | -          | -          |
|                        |           |           | 0.70 max  | 0.95±0.10  | 0.275±0.10 | 0.25±0.10  | 0.60±0.10 | 0.175±0.10 | 0.15±0.10  | -          | -          | -          |
|                        |           |           | 0.80±0.10 | 0.95±0.10  | 0.275±0.10 | 0.25±0.10  | 0.60±0.10 | 0.175±0.10 | 0.15±0.10  | -          | -          | -          |
| E                      | 1.10±0.10 | 0.90±0.10 | 0.60±0.10 | 0.25±0.10  | 0.18±0.10  | 0.205±0.10 | 0.25±0.10 | -          | -          | -          | -          | -          |
|                        | 1.40±0.15 | 1.10±0.10 | 0.60±0.10 | 0.325±0.10 | 0.25±0.10  | 0.25±0.10  | 0.25±0.10 | -          | -          | -          | -          | -          |
|                        | 1.40±0.15 | 1.10±0.15 | 0.70±0.10 | 0.325±0.10 | 0.25±0.10  | 0.25±0.10  | 0.25±0.10 | -          | -          | -          | -          | -          |
|                        | 2.00±0.20 | 1.25±0.20 | 1.00 max. | 0.325±0.10 | 0.25±0.10  | 0.25±0.10  | 0.25±0.10 | -          | -          | -          | -          | -          |
| F                      | 1.60±0.15 | 0.80±0.15 | 0.40±0.10 | 0.55±0.15  | 0.50±0.15  | 0.35±0.15  | 0.50±0.15 | 0.20±0.15  | -          | -          | -          | -          |
|                        |           |           | 0.60±0.10 | 0.55±0.15  | 0.50±0.15  | 0.35±0.15  | 0.50±0.15 | 0.20±0.15  | -          | -          | -          | -          |
| G                      | 1.60±0.10 | 0.80±0.10 | 0.70 max. | 0.55±0.10  | 0.25±0.10  | 0.23±0.10  | 0.40±0.10 | 0.12±0.10  | 0.195±0.10 | 0.21±0.10  | 0.125±0.10 | -          |
|                        | 2.00±0.15 | 1.25±0.10 | 0.80±0.10 | 0.95±0.10  | 0.40±0.10  | 0.30±0.10  | 0.30±0.10 | 0.15±0.10  | 0.30±0.10  | 0.35±0.10  | 0.15±0.10  | -          |
|                        |           |           | 0.90±0.10 | 0.95±0.10  | 0.40±0.10  | 0.30±0.10  | 0.30±0.10 | 0.15±0.10  | 0.30±0.10  | 0.35±0.10  | 0.15±0.10  | -          |
|                        | 2.50±0.20 | 2.00±0.20 | 0.90±0.10 | 1.70±0.20  | 0.60±0.20  | 0.30±0.20  | 0.40±0.20 | 0.15±0.10  | 0.60±0.10  | 0.50±0.10  | 0.15±0.10  | -          |
| H                      | 1.60±0.15 | 0.80±0.10 | 0.60 max. | 0.25±0.10  | 0.23±0.05  | 0.40±0.10  | 0.30±0.10 | 0.55±0.10  | 0.60±0.10  | -          | -          | -          |
| I                      | 2.00±0.15 | 1.25±0.10 | 1.00 max. | 1.80±0.10  | 0.35±0.10  | 0.25±0.10  | 0.25±0.10 | 0.275±0.10 | 0.35±0.10  | 0.25±0.10  | 0.25±0.10  | 0.275±0.10 |
| J                      | 2.50±0.15 | 2.00±0.15 | 0.90±0.10 | 0.30±0.10  | 0.40±0.10  | 0.55±0.10  | 0.40±0.10 | 0.90±0.10  | 0.30±0.10  | -          | -          | -          |
| K                      | 2.00±0.15 | 1.25±0.15 | 1.05±0.15 | 0.475±0.15 | 0.30±0.15  | 0.20±0.15  | 0.50±0.15 | 0.60±0.15  | 0.95±0.15  | -          | -          | -          |
|                        | 3.20±0.20 | 2.50±0.20 | 1.80±0.20 | 0.95±0.20  | 0.60±0.20  | 0.30±0.15  | 0.70±0.15 | 1.20±0.15  | 2.00±0.15  | -          | -          | -          |
| L                      | 2.00±0.15 | 1.25±0.10 | 1.05 max. | 0.20±0.10  | 0.35±0.10  | 0.30±0.10  | 0.65±0.10 | 0.20±0.10  | 0.20±0.10  | 0.475±0.10 | 0.30±0.10  | -          |

## ■ ELECTRICAL SPECIFICATION

### 2.4GHz BAND WORKING FREQUENCY

| Part Number        | Frequency Range(GHz) | Insertion Loss (dB)                 | Attenuation (dB min. )                                                                                                               | VSWR (max.) | Impedance (Ω) | Size(mm)        | STRUCTURE |
|--------------------|----------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|-----------------|-----------|
| RBBPF1005040A1T    | 2.4~2.5              | 2.5                                 | 25(824~960MHz)<br>20(1710~1910MHz)<br>20(4800~5000MHz)<br>15(7200~7500MHz)                                                           | 2.0         | 50            | 1.00x0.50x0.40  | B         |
| RFBPF1005040A3T    | 2.4~2.5              | 1.5max.(25℃)<br>1.7max.(-40~+85℃)   | 13(824~915MHz)<br>5(1545~1605MHz)<br>34(4800~5000MHz)<br>27(7200~7500MHz)                                                            | 2.1         | 50            | 1.00x0.50x0.40  | B         |
| RFBPF1109060A0T    | 2.4~2.5              | 1.8                                 | 35(824~960MHz)<br>38(1545~1605MHz)<br>20(1710~1990MHz)<br>8(2110~2170MHz)<br>35(3600MHz)<br>35(4800~5000MHz)<br>35(7200~7500MHz)     | 2.0         | 50            | 1.10x 0.90x0.60 | E         |
| RFBPF1411060A1T    | 2.4~2.5              | 1.8max.(25℃)<br>2.1max.(-40~+85℃)   | 40(824~960MHz)<br>40(1545~1605MHz)<br>20(1710~1990MHz)<br>8(2110~2170MHz)<br>35(3600MHz)<br>35(4800~5000MHz)<br>35(7200~7500MHz)     | 2.0         | 50            | 1.40x1.10x0.60  | E         |
| RFBPF1411060A2T    | 2.4~2.5              | 1.5                                 | 30(500~960MHz)<br>25(1500~1650MHz)<br>19(3200~3300MHz)<br>40(4800~5000MHz)<br>30(7200~7500MHz)                                       | 2.0         | 50            | 1.40x1.10x0.60  | E         |
| RBBPF1411060A3T    | 2.4~2.5              | 1.1                                 | 20( 50~960MHz)<br>10( 1710~1990MHz)<br>9( 3600MHz)<br>22( 4800~7200MHz)                                                              | 2.0         | 50            | 1.40x1.10x0.60  | E         |
| RBBPF1411060A8T    | 2.4~2.5              | 1.0max.(25℃)<br>1.2max.(-40~+85℃)   | 15(50~960MHz)<br>10(1710~1990MHz)<br>15(3600MHz)<br>25(4800~7200MHz)                                                                 | 2.0         | 50            | 1.40x1.10x0.60  | E         |
| RFBPF1608060AA7M1U | 2.4~2.5              | 0.95max.(25℃)<br>1.25max.(-40~+85℃) | 20(500~960MHz)<br>23(3200MHz)<br>30(4800~5000MHz)<br>32(7200~7500MHz)                                                                | 2.0         | 50            | 1.60x0.80x0.60  | H         |
| RFBPF1608060ADT    | 2.4~2.5              | 1.8max.(25℃)<br>2.1max.(-40~+85℃)   | 25(800~1000MHz)<br>22.5(1200~1300MHz)<br>5.5(2000MHz)<br>10.5(3000MHz)<br>23.5(3600~3800MHz)<br>35(4800~5000MHz)<br>35(7200~7500MHz) | 2.0         | 50            | 1.60x0.80x0.60  | B         |
| RFBPF1608060AET    | 2.4~2.5              | 1.7max.(25℃)<br>2.0max.(-40~+85℃)   | 25(880MHz)<br>20(3200MHz)<br>35(4800~5000MHz)<br>25(7200~7500MHz)                                                                    | 2.0         | 50            | 1.60x0.80x0.60  | F         |
| RFBPF1608070AFT    | 2.4~2.5              | 2.4max.(25℃)<br>2.7max.(-40~+85℃)   | 24.5(880~960MHz)<br>20(1710~1990MHz)<br>8.5(2170MHz)<br>15(4800~5000MHz)<br>20(7200~7500MHz)                                         | 2.0         | 50            | 1.60x0.80x0.70  | B         |
| RFBPF1608070AWT    | 2.4~2.5              | 2.0max.(25℃)<br>2.2max.(-40~+85℃)   | 30(960MHz)<br>25(1910MHz)<br>20(1990MHz)<br>25(4800MHz)<br>15(7200MHz)                                                               | 2.0         | 50            | 1.60x0.80x0.70  | B         |
| RFBPF1608050A0T    | 2.4~2.5              | 2.0max.(25℃)<br>2.2max.(-40~+85℃)   | 20(960MHz)<br>20(1910MHz)<br>15(1990MHz)<br>18(4800MHz)<br>25(7200MHz)                                                               | 2.0         | 50            | 1.60x0.80x0.50  | B         |
| RFBPF1608060A1T    | 2.4~2.5              | 2.8                                 | 25(695~800MHz)<br>20(1910MHz)<br>35(3200MHz)<br>20(4800~5000MHz)<br>20(7200~7500MHz)                                                 | 2.0         | 50            | 1.60x0.80x0.60  | B         |
| RFBPF1608060A7T    | 2.4~2.5              | 3.0                                 | 25(695~800MHz)<br>20(1910MHz)<br>35(3200MHz)<br>20(4800~5000MHz)<br>20(7200~7500MHz)                                                 | 2.0         | 50            | 1.60x0.80x0.60  | B         |
| RFBPF1608060A8T    | 2.4~2.5              | 1.7                                 | 30(880~915MHz)<br>30(1710~1785MHz)<br>25(1850~1910MHz)<br>25(4800~5000MHz)<br>15(7200~7500MHz)                                       | 2.0         | 50            | 1.60x0.80x0.60  | B         |

# HIGH FREQUENCY

## MULTILAYER BAND PASS FILTER

### 2.4GHz BAND WORKING FREQUENCY

| Part Number        | Frequency Range(GHz) | Insertion Loss (dB)                   | Attenuation (dB min.)                                                                                                                                                                                                                   | VSWR (max.) | Impedance (Ω) | Size(mm)       | STRUCTURE |
|--------------------|----------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|----------------|-----------|
| RFBPF1608070A3T    | 2.4~2.5              | 1.8max.(25°C)<br>2.1max.(-40~+85°C)   | 27(800~900MHz)<br>25(4800~5000MHz)<br>30(7200~7500MHz)                                                                                                                                                                                  | 2.0         | 50            | 1.60x0.80x0.70 | B         |
| RFBPF2012080AM0T62 | 2.4~2.5              | 1.8max.(25°C)<br>2.0max.(-40~+85°C)   | 30(860~960MHz)<br>30(1545~1605MHz)<br>35(1710~1990MHz)<br>30(2170MHz)<br>30(4800~5000MHz)                                                                                                                                               | 2.0         | 50            | 2.00x1.20x0.80 | D         |
| RFBPF2012080AC2T00 | 2.4~2.5              | 1.35max.(25°C)<br>1.55max.(-40~+85°C) | 30(804~828MHz)<br>20(1608~1656MHz)<br>30(3216~3312MHz)<br>40(4020~4140MHz)<br>20(4824~4968MHz)<br>20(5628~5796MHz)<br>20(6432~6624MHz)<br>35(7200~7500MHz)<br>20(7500~10000MHz)                                                         | 2.0         | 50            | 2.00x1.25x0.80 | G         |
| RFBPF2012090AS1T35 | 2.4~2.5              | 0.9max.(25°C)<br>1.1max.(-40~+85°C)   | 28(824~960MHz)<br>30(1570~1580MHz)<br>15(1710~1910MHz)<br>9.5(1910~1990MHz)<br>25(4800~5000MHz)<br>25(7200~7500MHz)                                                                                                                     | 2.0         | 50            | 2.00x1.25x0.90 | G         |
| RFBPF2012060AAT    | 2.4~2.5              | 1.5max.(25°C)<br>1.8max.(-40~+85°C)   | 30(880~960MHz)<br>25(1710~1910MHz)<br>25(4800~5000MHz)<br>30(7200~7500MHz)                                                                                                                                                              | 2.0         | 50            | 2.00x1.20x0.60 | C         |
| RFBPF2012040ABT    | 2.4~2.5              | 2.5                                   | 30(824~849MHz)<br>30(880~915MHz)<br>30(1545~1605MHz)<br>30(1565~1585MHz)<br>35(1710~1785MHz)<br>40(1850~1910MHz)<br>32(1920~1980MHz)<br>7(3168~4752MHz)<br>11(3300~3800MHz)<br>35(4800~4967MHz)<br>26(5150~6000MHz)<br>23(7200~7450MHz) | 2.0         | 50            | 2.00x1.20x0.40 | D         |
| RFBPF2012050ACT    | 2.4~2.5              | 2.5                                   | 35(824~960MHz)<br>38(1710~1910MHz)<br>25(4880~5000MHz)<br>20(7200~7500MHz)                                                                                                                                                              | 2.0         | 50            | 2.00x1.20x0.55 | C         |
| RFBPF2012080ADT    | 2.4~2.5              | 1.5max.(25°C)<br>1.7max.(-40~+85°C)   | 30(860~960MHz)<br>30(1545~1605MHz)<br>30(1710~1990MHz)<br>30(2170MHz)<br>30(4800~5000MHz)                                                                                                                                               | 2.0         | 50            | 2.00x1.25x0.80 | D         |
| RFBPF2012080AFT    | 2.4~2.5              | 1.8max.(25°C)<br>2.0max.(-40~+85°C)   | 30(824~915MHz)<br>30(1545~1605MHz)<br>35(1710~1990MHz)<br>30(2170MHz)<br>30(4800~4967MHz)<br>25(5150~6000MHz)<br>20(7200~7450.5MHz)                                                                                                     | 2.0         | 50            | 2.00x1.25x0.80 | D         |
| RFBPF2012080AGT    | 2.4~2.5              | 1.8max.(typ.1.5)                      | 35(824~960MHz)<br>28(1545~1605MHz)<br>30(1710~1990MHz)<br>30(2170MHz)<br>6(3200MHz)<br>30(4800~4967MHz)<br>20(5150~6000MHz)<br>18(7200~7450MHz)                                                                                         | 2.0         | 50            | 2.00x1.25x0.80 | D         |
| RFBPF2012040AHT    | 2.4~2.5              | 2.5                                   | 25(746~764MHz)<br>30(824~849MHz)<br>26(869~960MHz)<br>28(1570~1580MHz)<br>28(1710~1785MHz)<br>30(1850~1910MHz)<br>30(1930~1990MHz)<br>30(2110~2170MHz)<br>15(3300~3800MHz)<br>35(4800~5000MHz)<br>20(7200~7450.5MHz)                    | 2.0         | 50            | 2.00x1.25x0.45 | D         |
| RBBPF2012050AHT    | 2.4~2.5              | 2.5max.(typ.2.2)                      | 25(746~764MHz)<br>30(824~849MHz)<br>26(869~960MHz)<br>28(1570~1580MHz)<br>28(1710~1785MHz)<br>30(1850~1910MHz)<br>30(1930~1990MHz)<br>25(2110~2170MHz)<br>15(3300~3800MHz)<br>35(4800~5000MHz)                                          | 2.0         | 50            | 2.00x1.25x0.45 | D         |

## 2.4GHz BAND WORKING FREQUENCY

| Part Number      | Frequency Range(GHz) | Insertion Loss (dB)                    | Attenuation (dB min. )                                                                                                                                                                                               | VSWR (max.) | Impedance (Ω) | Size(mm)       | STRUCTURE |
|------------------|----------------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|----------------|-----------|
| RFBPF2012090ALT  | 2.4~2.5              | 1.0max.(25°C)<br>1.2max.(-40~+85°C)    | 28(824~960MHz)<br>28(1570~1580MHz)<br>23(1710~1910MHz)<br>17(1920~1990MHz)<br>25(4800~5000MHz)                                                                                                                       | 2.0         | 50            | 2.00x1.25x0.90 | G         |
| RFBPF2012090AMT  | 2.4~2.5              | 2.6                                    | 40(880~960MHz)<br>38(1710~1990MHz)<br>16(2170MHz)<br>30(4800~5000MHz)<br>30(7200~7500MHz)                                                                                                                            | 2.0         | 50            | 2.00x1.20x0.90 | B         |
| RFBPF2012100ANT  | 2.4~2.5              | 2.3max.(25°C)<br>2.6max.(-40~+85°C)    | 40(699~960MHz)<br>40(1428~1448MHz)<br>40(1476~1607MHz)<br>40(1710~1785MHz)<br>33(1805~1880MHz)<br>30(1880~1915MHz)<br>30(1920~1990MHz)<br>22(2110~2170MHz)<br>25(4800~5000MHz)<br>35(7200~7500MHz)                   | 2.0         | 50            | 2.00x1.20x1.00 | I         |
| RFBPF2012090AQT  | 2.4~2.5              | 1.2                                    | 20(1600MHz)<br>25(3200MHz)<br>20(4800~5000MHz)                                                                                                                                                                       | 2.0         | 50            | 2.00x1.20x0.90 | B         |
| RFBPF2012090ART  | 2.4~2.5              | 1.0                                    | 20(1600MHz)<br>25(3200MHz)                                                                                                                                                                                           | 2.0         | 50            | 2.00x1.20x0.90 | B         |
| RFBPF2012100AVT  | 2.4~2.5              | 1.5max.(25°C)<br>1.7max.(-40~+85°C)    | 40(699~960MHz)<br>40(1428~1448MHz)<br>40(1476~1607MHz)<br>40(1710~1785MHz)<br>33(1805~1880MHz)<br>30(1880~1915MHz)<br>30(1920~1990MHz)<br>25(4800~5000MHz)<br>30(7200~7500MHz)                                       | 2.0         | 50            | 2.00x1.20x1.00 | I         |
| RBBPF2010A108Q1C | 2.4~2.5              | 1.3max.(25°C)<br>1.5max.(-40~+85°C)    | 38(50~960MHz)<br>17(1710~1910MHz)<br>5(3200MHz)<br>30(4800~5000MHz)<br>25(7200~7500MHz)                                                                                                                              | 2.0         | 50            | 2.00x1.20x0.90 | E         |
| RFBPF2009A12T    | 2.4~2.5              | 1.0max.(25°C)<br>1.2max.(-40~+85°C)    | 28(824~960MHz)<br>28(1570~1580MHz)<br>23(1710~1910MHz)<br>17(1920~1990MHz)<br>4(2100~2170MHz)<br>25(4800~5000MHz)<br>25(7200~7500MHz)                                                                                | 2.0         | 50            | 2.00x1.25x0.90 | G         |
| RBBPF2010A16T    | 2.4~2.5              | 1.3max.(25°C)<br>1.5max.(-40~+85°C)    | 38(50~960MHz)<br>17(1710~1990MHz)<br>20(3200MHz)<br>30(4800~5000MHz)<br>25(7200~7500MHz)                                                                                                                             | 2.0         | 50            | 2.00x1.25x1.00 | E         |
| AMBPF2008A17T    | 2.4~2.5              | 1.35max.(25°C)<br>1.65max.(-40~+125°C) | 30(804~828MHz)<br>20(1608~1656MHz)<br>30(3216~3312MHz)<br>38(4020~4140MHz)<br>20(4824~4968MHz)<br>20(5628~5796MHz)<br>20(6432~6624MHz)<br>35(7200~7500MHz)<br>20(7500~10000MHz)                                      | 2.0         | 50            | 2.00x1.20x0.80 | G         |
| RFBPF2012090A1T  | 2.4~2.5              | 1.7max.(25°C)<br>1.9max.(-40~+85°C)    | 30(900MHz)<br>20(1850MHz)<br>30(4800MHz)                                                                                                                                                                             | 2.0         | 50            | 2.00x1.20x0.90 | B         |
| RFBPF2012090A2T  | 2.4~2.5              | 1.4max.(25°C)<br>1.6max.(-40~+85°C)    | 30(824~960MHz)<br>30(1710~1910MHz)<br>20(1920~1990MHz)<br>6(2110~2170MHz)<br>20(4800~5000MHz)                                                                                                                        | 2.0         | 50            | 2.00x1.20x0.90 | B         |
| RFBPF2012040A3T  | 2.4~2.5              | 2.0max.(25°C)<br>2.2max.(-40~+85°C)    | 25(746~764MHz)<br>30(824~849MHz)<br>26(869~960MHz)<br>28(1570~1580MHz)<br>28(1710~1785MHz)<br>30(1850~1910MHz)<br>30(1930~1990MHz)<br>25(2110~2170MHz)<br>15(3300~3800MHz)<br>35(4800~5000MHz)<br>20(7200~7450.5MHz) | 2.0         | 50            | 2.00x1.25x0.45 | D         |

# HIGH FREQUENCY

## MULTILAYER BAND PASS FILTER

### 2.4GHz BAND WORKING FREQUENCY

| Part Number     | Frequency Range(GHz) | Insertion Loss (dB)                 | Attenuation ( dB min. )                                                                                                                                                                                                                   | VSWR (max.) | Impedance (Ω) | Size(mm)       | STRUCTURE |
|-----------------|----------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|----------------|-----------|
| RFBPF2012080A6T | 2.4~2.5              | 3.5                                 | 30(880~960MHz)<br>30(1710~1990MHz)<br>20(2110~2170MHz)<br>30(4800~5000MHz)<br>30(7200~7500MHz)                                                                                                                                            | 2.0         | 50            | 2.00x1.20x0.80 | C         |
| RFBPF2012100A6T | 2.4~2.5              | 1.0max.(25°C)<br>1.2max.(-40~+85°C) | 21(902~928MHz)<br>26(4800~5000MHz)<br>34(7200~7500MHz)<br>29(9600~10000MHz)                                                                                                                                                               | 2.0         | 50            | 2.00x1.20x1.00 | L         |
| RFBPF2012080A7T | 2.4~2.5              | 2.8<br>(typ.2.5)                    | 40(DC~1600MHz)<br>35(1710MHz)<br>25(1900MHz)<br>12(2100MHz)<br>8(2170MHz)<br>30(3100MHz)<br>40(4800~5000MHz)<br>20(7200~7500MHz)                                                                                                          | 2.0         | 50            | 2.00x1.20x0.80 | B         |
| RFBPF2012060A9T | 2.4~2.5              | 2.8                                 | 30(960MHz)<br>30(1600MHz)<br>20(1990MHz)<br>35(3200MHz)<br>40(4800MHz)<br>25(7200MHz)                                                                                                                                                     | 2.0         | 50            | 2.00x1.20x0.60 | B         |
| RFBPF2520090ACT | 2.4~2.5              | 2.1max.(25°C)<br>2.3max.(-40~+85°C) | 43(806~960MHz)<br>43(1570~1580MHz)<br>43(1710~1990MHz)<br>20(2110~2170MHz)<br>30(4800~5000MHz)<br>25(7200~7500MHz)                                                                                                                        | 2.0         | 50            | 2.50x2.00x0.90 | G         |
| RFBPF2520070AMT | 2.4~2.5              | 2.0max.(25°C)<br>2.2max.(-40~+85°C) | 45(824~960MHz)<br>45(1570~1580MHz)<br>45(1710~1785MHz)<br>40(1805~1850MHz)<br>35(1850~1910MHz)<br>35(1920~1990MHz)<br>25(2110~2170MHz)<br>5(2750~3000MHz)<br>15(3000~4800MHz)<br>30(4800~5000MHz)<br>30(5150~5850MHz)<br>20(7200~7500MHz) | 2.0         | 50            | 2.50x2.00x0.70 | A         |
| RFBPF2520080AUT | 2.4~2.5              | 2.2                                 | 30(900MHz)<br>30(1850MHz)<br>33(2170MHz)<br>35(4800MHz)<br>25(7200MHz)                                                                                                                                                                    | 2.0         | 50            | 2.50x2.00x0.70 | A         |
| RFBPF2520120A1T | 2.4~2.5              | 1.7                                 | 30(900MHz)<br>30(1850MHz)<br>20(2100MHz)<br>40(4800MHz)<br>25(7200MHz)                                                                                                                                                                    | 2.0         | 50            | 2.50x2.00x1.20 | A         |
| RFBPF2520120A2T | 2.4~2.5              | 2.1                                 | 30(900MHz)<br>30(1850MHz)<br>30(4800MHz)                                                                                                                                                                                                  | 2.0         | 50            | 2.50x2.00x1.20 | A         |
| RFBPF2520120A3T | 2.4~2.5              | ≤1.2(25°C)                          | 30(900MHz)<br>30(1850MHz)<br>25(4800MHz)                                                                                                                                                                                                  | 2.0         | 50            | 2.50x2.00x1.20 | A         |
| RFBPF2520120A4T | 2.4~2.5              | ≤1.7(25°C)                          | 30(900MHz)<br>30(1850MHz)<br>25(4800MHz)                                                                                                                                                                                                  | 2.0         | 50            | 2.50x2.00x1.20 | A         |
| RFBPF2520100A6T | 2.4~2.5              | 1.4                                 | 35(1900/4800 MHz)                                                                                                                                                                                                                         | 2.0         | 50            | 2.50x2.00x1.00 | A         |
| RFBPF3225150A3T | 2.4~2.5              | 2.5                                 | 40(1500MHz)<br>30(2100MHz)<br>30(4800MHz)                                                                                                                                                                                                 | 1.7         | -             | 3.20x2.50x1.50 | A         |
| RFBPF3225150A4T | 2.4~2.5              | 2.0                                 | 30(900MHz)<br>30(1850MHz)<br>20(2100MHz)<br>30(4800MHz)                                                                                                                                                                                   | 2.0         | 50            | 3.20x2.50x1.50 | A         |
| RFBPF3225150A5T | 2.4~2.5              | 1.8                                 | 30(900MHz)<br>30(1850MHz)<br>20(2100MHz)<br>30(4800MHz)                                                                                                                                                                                   | 2.0         | 50            | 3.20x2.50x1.50 | A         |

## 5GHz BAND WORKING FREQUENCY

| Part Number        | Frequency Range(GHz) | Insertion Loss (dB)                          | Attenuation (dB min. )                                                                                                                    | VSWR (max.) | Impedance (Ω) | Size(mm)       | STRUCTURE |
|--------------------|----------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|----------------|-----------|
| RFBPF1608060K2T    | 4.9~5.84             | 1.5max.(25°C)<br>1.7max.(-40~+85°C)          | 33(100~2170MHz)<br>29(2170~2500MHz)<br>32(9800~12000MHz)                                                                                  | 2.0         | 50            | 1.60x0.80x0.70 | B         |
| RFBPF1608060K68Q1C | 4.9~5.9              | 1.3max.(25°C)<br>1.5max.(-40~+85°C)          | 38(30~2700MHz)<br>16(3453~3547MHz)<br>33(3667~3883MHz)<br>9(6900~7093MHz)<br>32(7333~7750MHz)<br>40(10600~11650MHz)<br>18(15540~17760MHz) | 2.0         | 50            | 1.60x0.80x0.60 | D         |
| RFBPF1608060K78Q1C | 5.15~5.95            | 0.8max.(25°C)<br>1.0max.(-40~+85°C)          | 40(30~2700MHz)<br>45(3400~3800MHz)<br>20(7250~7800MHz)<br>20(10300~11700MHz)                                                              | 1.5         | 50            | 1.60x0.80x0.60 | D         |
| RFBPF1608060K88Q1C | 5.15~5.95            | 0.7max.(25°C)<br>0.85max.(-40~+85°C)         | 35(30~2700MHz)<br>30(3400~3800MHz)<br>12(7250~7800MHz)<br>20(10300~11700MHz)                                                              | 1.5         | 50            | 1.60x0.80x0.60 | D         |
| RFBPF1608060KG8D1T | 5.15~5.95            | 0.8                                          | 40(30~2700MHz)<br>45(3400~3800MHz)<br>20(6900MHz)<br>20(7250~7800MHz)<br>20(10300~11700MHz)                                               | 1.67        | 50            | 1.60x0.80x0.60 | D         |
| RFBPF2012100KST    | 4.9~5.9              | 1.5(4.90GHz)<br>1.5(5.25GHz)<br>1.5(5.85GHz) | 30(3450MHz)<br>20(11000MHz)                                                                                                               | 2.0         | 50            | 2.00x1.20x1.00 | B         |
| RFBPF2012100K0T    | 4.9~5.9              | 1.7(4.90GHz)<br>1.5(5.25GHz)<br>1.5(5.85GHz) | 30(3450MHz)<br>20(11000MHz)                                                                                                               | 2.0         | 50            | 2.00x1.20x1.00 | B         |
| RFBPF2012090K5T    | 4.9~5.85             | 2.2max.(25°C)<br>2.5max.(-40~+85°C)          | 35(340~1195MHz)<br>19(2140~3580MHz)<br>25(6855~7150MHz)<br>20(8570~8930MHz)                                                               | 2.0         | 50            | 2.00x1.20x0.90 | B         |
| RFBPF2012100K3T    | 4.9~5.85             | 1.8max.(25°C)<br>2.1max.(-40~+85°C)          | 30(500MHz)<br>35(3450MHz)<br>30(4000MHz)<br>20(4200MHz)<br>15(9800MHz)<br>15(11700MHz)                                                    | 2.0         | 50            | 2.00x1.20x0.95 | B         |
| RFBPF2012100K6T    | 5.15~5.85            | 1.6max.(25°C)<br>1.8max.(-40~+85°C)          | 30(500MHz)<br>40(2000MHz)<br>35(3450MHz)<br>30(4000MHz)<br>20(4200MHz)                                                                    | 2.0         | 50            | 2.00x1.20x0.95 | B         |
| RFBPF2012090K9T    | 5.725~5.85           | 2.0                                          | 30(500MHz)<br>30(4000MHz)<br>20(4200MHz)<br>32(5000MHz)<br>15(9800MHz)<br>15(11750MHz)                                                    | 2.0         | 50            | 2.00x1.20x0.95 | B         |
| RFBPF2520090K1T    | 4.9~5.85             | 1.2max.(25°C)<br>1.5max.(-40~+85°C)          | 50(824~1910MHz)<br>15(9880~11700MHz)                                                                                                      | 2.0         | 50            | 2.50x2.00x0.90 | A         |
| KFBPF25204G7W09S5K | 4.4~4.94             | 3.5                                          | 50(1000MHz)<br>35(2500MHz)<br>20(3500MHz)<br>7(4250MHz)<br>15(5150MHz)<br>20(57500MHz)                                                    | 2.0         | 50            | 2.50x2.00x0.80 | A         |

## WiMAX BAND WORKING FREQUENCY

| Part Number     | Frequency Range(GHz) | Insertion Loss (dB) | Attenuation (dB min. )                                                                                             | VSWR (max.) | Impedance (Ω) | Size(mm)       | STRUCTURE |
|-----------------|----------------------|---------------------|--------------------------------------------------------------------------------------------------------------------|-------------|---------------|----------------|-----------|
| RFBPF16082G3W0T | 2.3~2.39             | 2.0                 | 29(880~915MHz)<br>29(1710~1785MHz)<br>21(1850~1910MHz)<br>15(1920~1980MHz)<br>18(4600~4780MHz)<br>23(6900~7170MHz) | 2.0         | 50            | 1.60x0.80x0.70 | B         |

# HIGH FREQUENCY

## MULTILAYER BAND PASS FILTER

### 1558 ~ 1606 MHz GNSS Band Applications

| Part Number     | Frequency Range (MHz) | Insertion Loss (dB)                 | Attenuation (dB min. )                                                                         | VSWR (max.) | Impedance (Ω) | Size(mm)       | STRUCTURE |
|-----------------|-----------------------|-------------------------------------|------------------------------------------------------------------------------------------------|-------------|---------------|----------------|-----------|
| RFBPF1109060E0T | 1550~1610             | 1.9max.                             | 25(960MHz)<br>8(1850MHz)<br>15(1990MHz)<br>20(2170MHz)<br>35(2400~2500MHz)<br>35(3400~3800MHz) | 2.0         | 50            | 1.10x0.90x0.60 | E         |
| RFBPF1411070E0T | 1558~1606             | 1.8max.(25°C)<br>2.0max.(-40~+85°C) | 30(824~849MHz)<br>30(880~915MHz)<br>10(1880~1910MHz)<br>22(1920~1980MHz)<br>30(2400MHz)        | 2.0         | 50            | 1.40x1.10x0.70 | E         |

### 860~960MHz/1805~2025 MHz Band Application

| Part Number        | Frequency Range (MHz) | Insertion Loss (dB)                  | Attenuation (dB min. )                                                      | VSWR (max.) | Impedance (Ω) | Size(mm)       | STRUCTURE |
|--------------------|-----------------------|--------------------------------------|-----------------------------------------------------------------------------|-------------|---------------|----------------|-----------|
| RFBPF2520090B08Q1C | 869~960               | 0.7max.(25°C)<br>0.75max.(-40~+85°C) | 25(430~490MHz)<br>10(1700~1900MHz)<br>20(2400~2500MHz)<br>20(4905~5845MHz)  | 1.9         | 50            | 2.50x2.00x0.90 | J         |
|                    | 1805~2025             | 1.1max.(25°C)<br>1.2max.(-40~+85°C)  | 25(900~1015MHz)<br>15(2400~2500MHz)<br>15(3610~3980MHz)<br>20(4905~5845MHz) | 2.0         |               |                |           |

### MoCA / Docsis Application

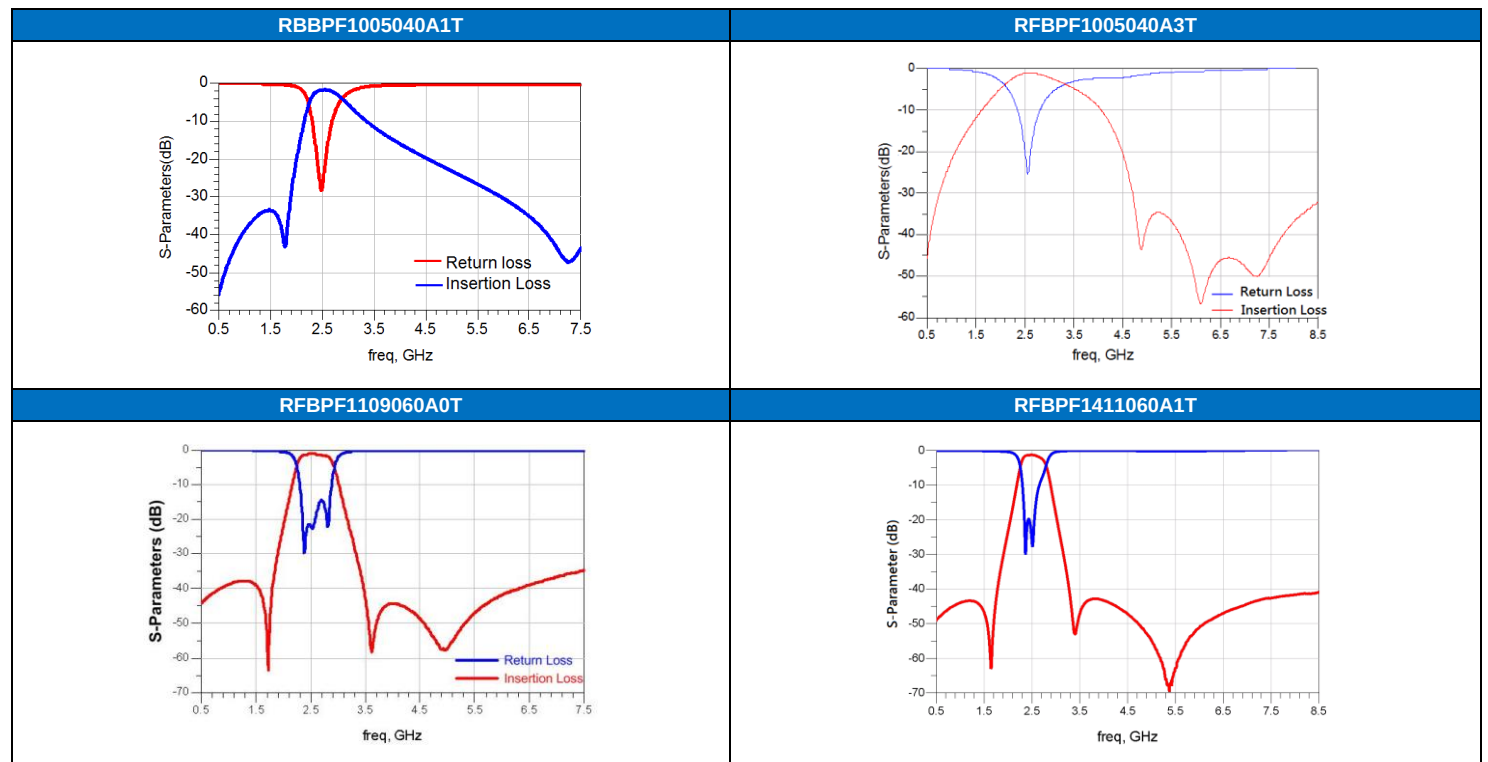
| Part Number        | Frequency Range(MHz) | Insertion Loss (dB)                 | Attenuation ( dB min. )                                                                                                                                    | VSWR (max.) | Impedance (Ω) | Size(mm)       | STRUCTURE |
|--------------------|----------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|----------------|-----------|
| RFBPF3225180Y1T    | 975~1025             | 3.0                                 | 30(54~870MHz)<br>30(1125~1675MHz)<br>30(2300MHz)                                                                                                           | 2.0         | 75            | 3.20x2.50x1.80 | K         |
| RFBPF3225200Y07B1U | 475~675              | 2.5max.(25°C)<br>2.7max.(-40~+85°C) | 60(2.5MHz)<br>40(2.5~100MHz)<br>35(100~200MHz)<br>35(200~300MHz)<br>8(300~400MHz)<br>57(950MHz)<br>47(950~2025MHz)<br>41(2025~2500MHz)<br>35(2500~3000MHz) | 2.0         | 75            | 3.20x2.50x1.80 | K         |
| RBBPF3225180Y27B1U | 400~700              | 2.0                                 | 42(1~200MHz)<br>30(950~2150MHz)<br>35(2150~3000MHz)<br>27(3000~5900MHz)                                                                                    | 2.0         | 50            | 3.20x2.50x1.80 | K         |
| KFBPF2012100C67B1U | 1125~1675            | 2.5                                 | 35(1~900MHz)<br>20(900~1002MHz)<br>35(2000~2500MHz)<br>20(2500~5900MHz)                                                                                    | 2.0         | 50            | 2.00x1.25x1.05 | K         |
| RFBPF3225180C07B1U | 1125~1675            | 1.8max.(25°C)<br>2.0max.(-40~+85°C) | 30(5~864MHz)<br>34(864~1002MHz)<br>32(2300~3000MHz)                                                                                                        | 2.0         | 75            | 3.20x2.50x1.80 | K         |
| RBBPF3225180C67B1U | 1125~1675            | 2.0                                 | 40(1~900MHz)<br>25(900~1002MHz)<br>35(2000~2500MHz)<br>27(2500~5900MHz)                                                                                    | 2.0         | 50            | 3.20x2.50x1.80 | K         |
| RBBPF3225180C77B1U | 1125~1225            | 2.0                                 | 33(1~900MHz)<br>25(900~1002MHz)<br>25(1350~1675MHz)<br>35(2000~2500MHz)<br>27(2500~5900MHz)                                                                | 2.0         | 50            | 3.20x2.50x1.80 | K         |



## LTE Band Application

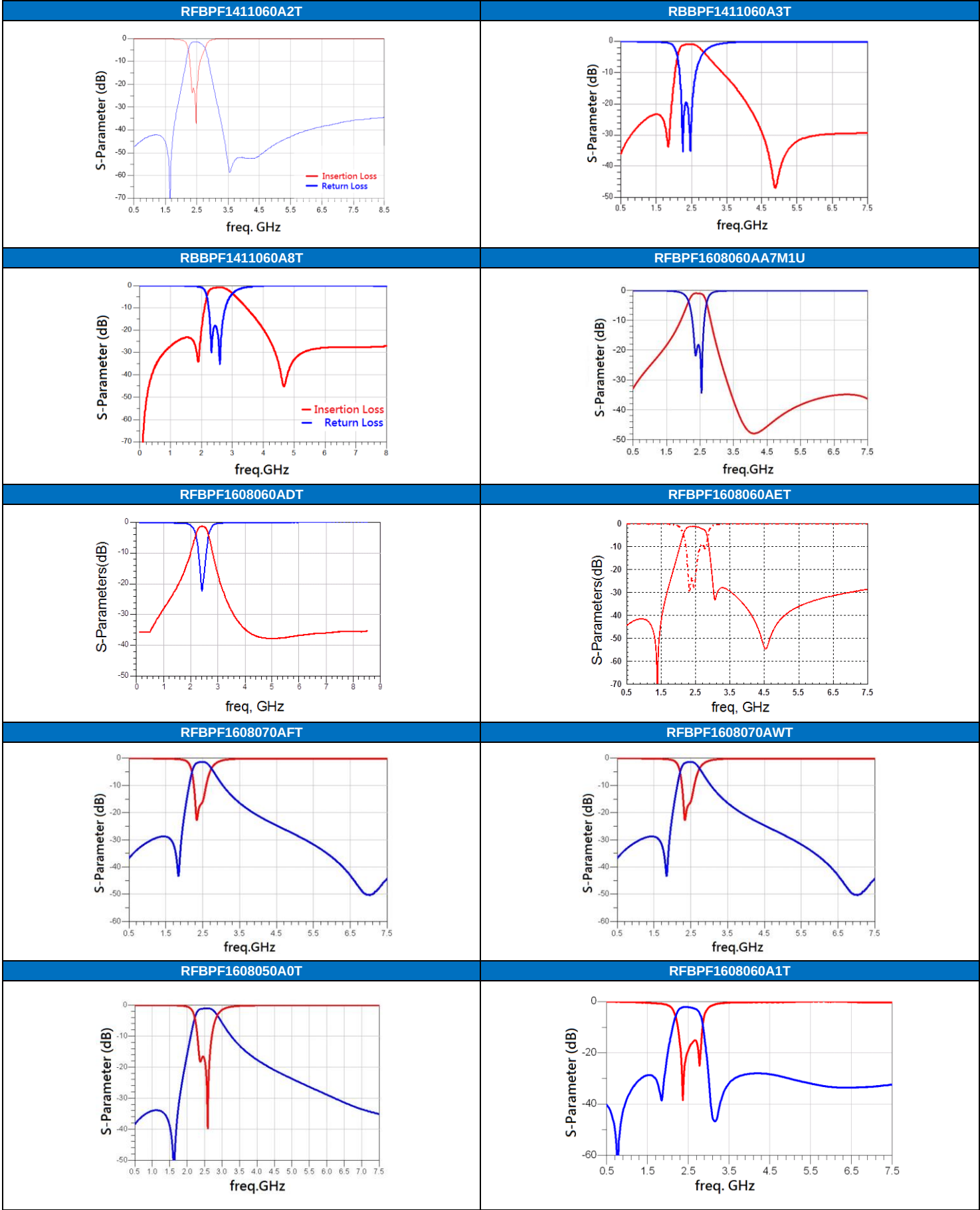
| Part Number        | Frequency Range(MHz) | Insertion Loss (dB)                 | Attenuation ( dB min. )                                                                                                                  | VSWR (max.) | Impedance ( $\Omega$ ) | Size(mm)       | STRUCTURE |
|--------------------|----------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|----------------|-----------|
| RFBPF1109B101T     | 2110~2170            | 1.7                                 | 25(4280MHz)                                                                                                                              | 2           | 50                     | 1.10x0.90x0.60 | E         |
| RFBPF1109B201T     | 1930~1990            | 1.7                                 | 25(3920MHz)                                                                                                                              | 2           | 50                     | 1.10x0.90x0.60 | E         |
| RFBPF1109B301T     | 1805~1880            | 1.4                                 | 25(3685MHz)                                                                                                                              | 2           | 50                     | 1.10x0.90x0.60 | E         |
| RFBPF1109B501T     | 869~894              | 0.9                                 | 12(1763MHz)                                                                                                                              | 2           | 50                     | 1.10x0.90x0.60 | E         |
| RFBPF1109B701T     | 2620~2690            | 1.2                                 | 25(5310MHz)                                                                                                                              | 2           | 50                     | 1.10x0.90x0.60 | E         |
| RFBPF1109B801T     | 925~960              | 0.9                                 | 12(1885MHz)                                                                                                                              | 2           | 50                     | 1.10x0.90x0.60 | E         |
| RFBPF16081G9DM1T79 | 1805~2025            | 1.6max.(25°C)<br>1.8max.(-40~+85°C) | 25(700~950MHz)<br>15(950~1050MHz)<br>25(2400~2500MHz)<br>35(2700~5150MHz)<br>40(5150~5850MHz)<br>25(5850~12750MHz)                       | 2           | 50                     | 1.60x0.80x0.70 | G         |
| RFBPF16081G9DMAT73 | 1805~2025            | 2.0                                 | 30(700~950MHz)<br>15(950~1050MHz)<br>40(2400~2500MHz)<br>35(2700~5400MHz)<br>35(5500~6200MHz)<br>35(9350~10150MHz)<br>20(10500~12750MHz) | 2           | 50                     | 1.60x0.80x0.70 | G         |
| RFBPF16081G9DMAT79 | 1880~2025            | 2.0max.(25°C)<br>2.2max.(-40~+85°C) | 20(1545~1610MHz)<br>25(2400~2500MHz)<br>25(5150~5850MHz)                                                                                 | 2           | 50                     | 1.60x0.80x0.70 | G         |
| RFBPF16081G9DS8T60 | 1805~2025            | 1.6                                 | 30(700~950MHz)<br>15(950~1050MHz)<br>25(2400~2500MHz)<br>35(2700~5400MHz)<br>35(5500~6200MHz)<br>35(9350~10150MHz)<br>20(10500~12750MHz) | 2           | 50                     | 1.60x0.80x0.70 | G         |

## ■ TYPICAL ELECTRICAL CHARACTERISTICS

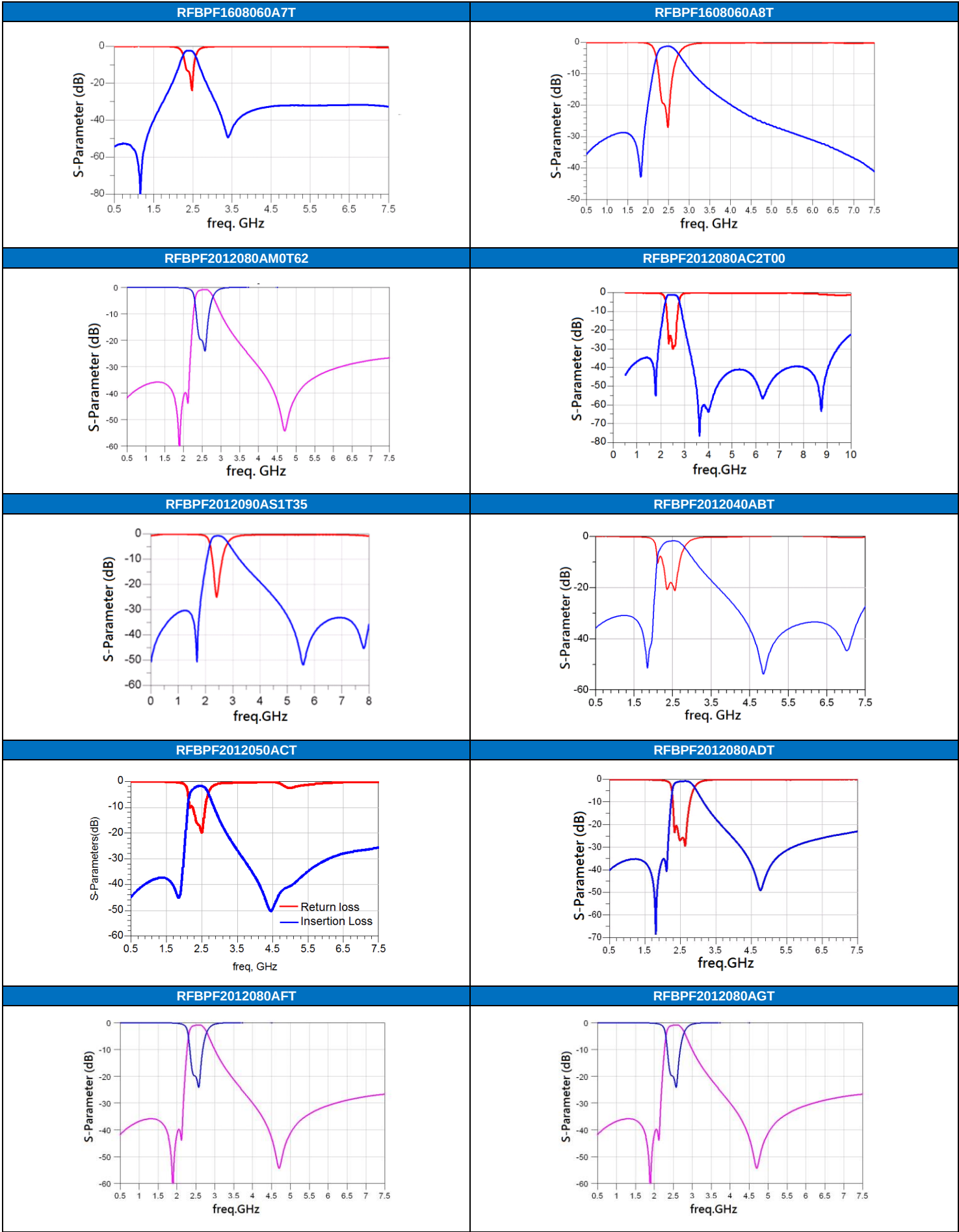


# HIGH FREQUENCY MULTILAYER BAND PASS FILTER

## TYPICAL ELECTRICAL CHARACTERISTICS

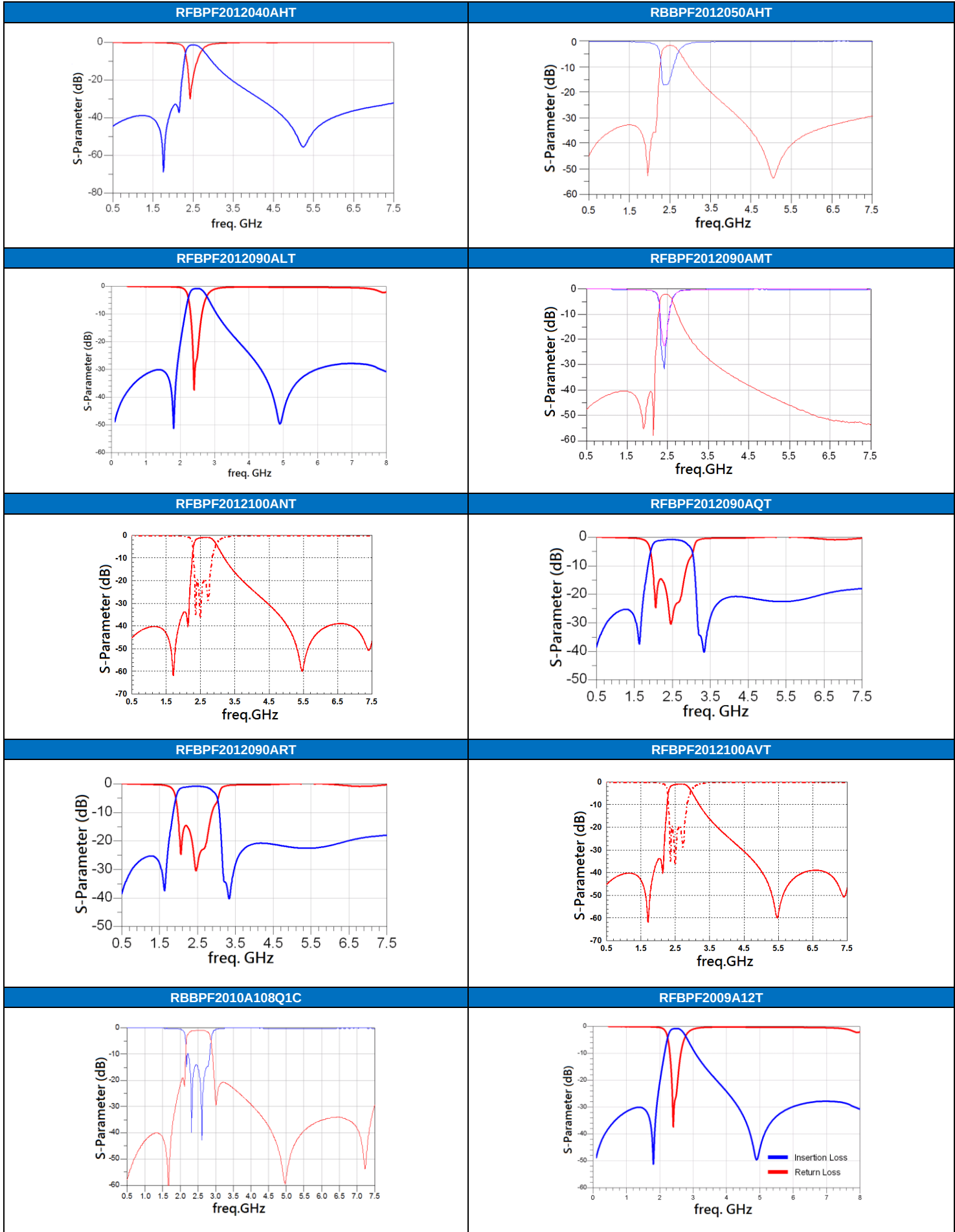


TYPICAL ELECTRICAL CHARACTERISTICS

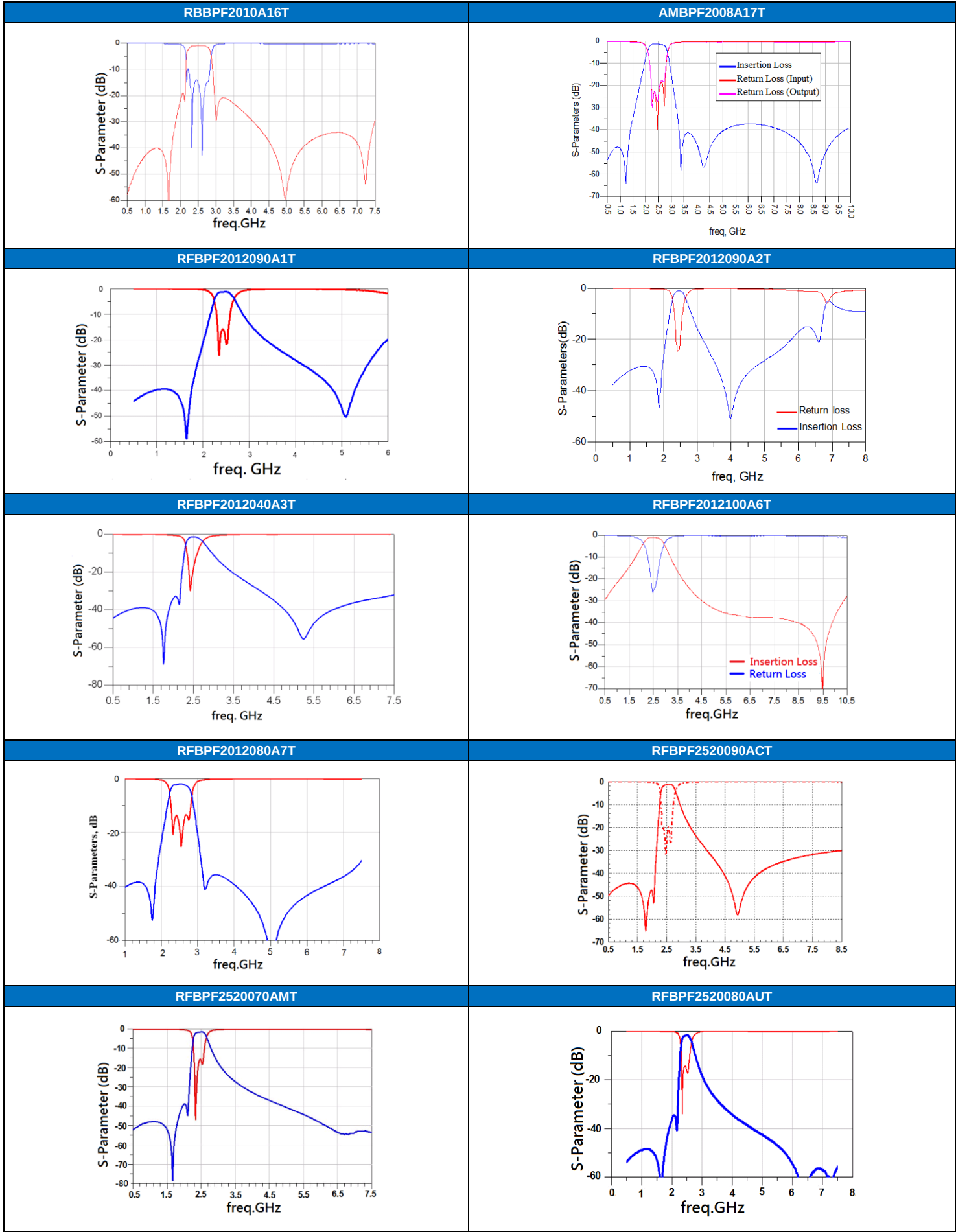


# HIGH FREQUENCY MULTILAYER BAND PASS FILTER

## TYPICAL ELECTRICAL CHARACTERISTICS

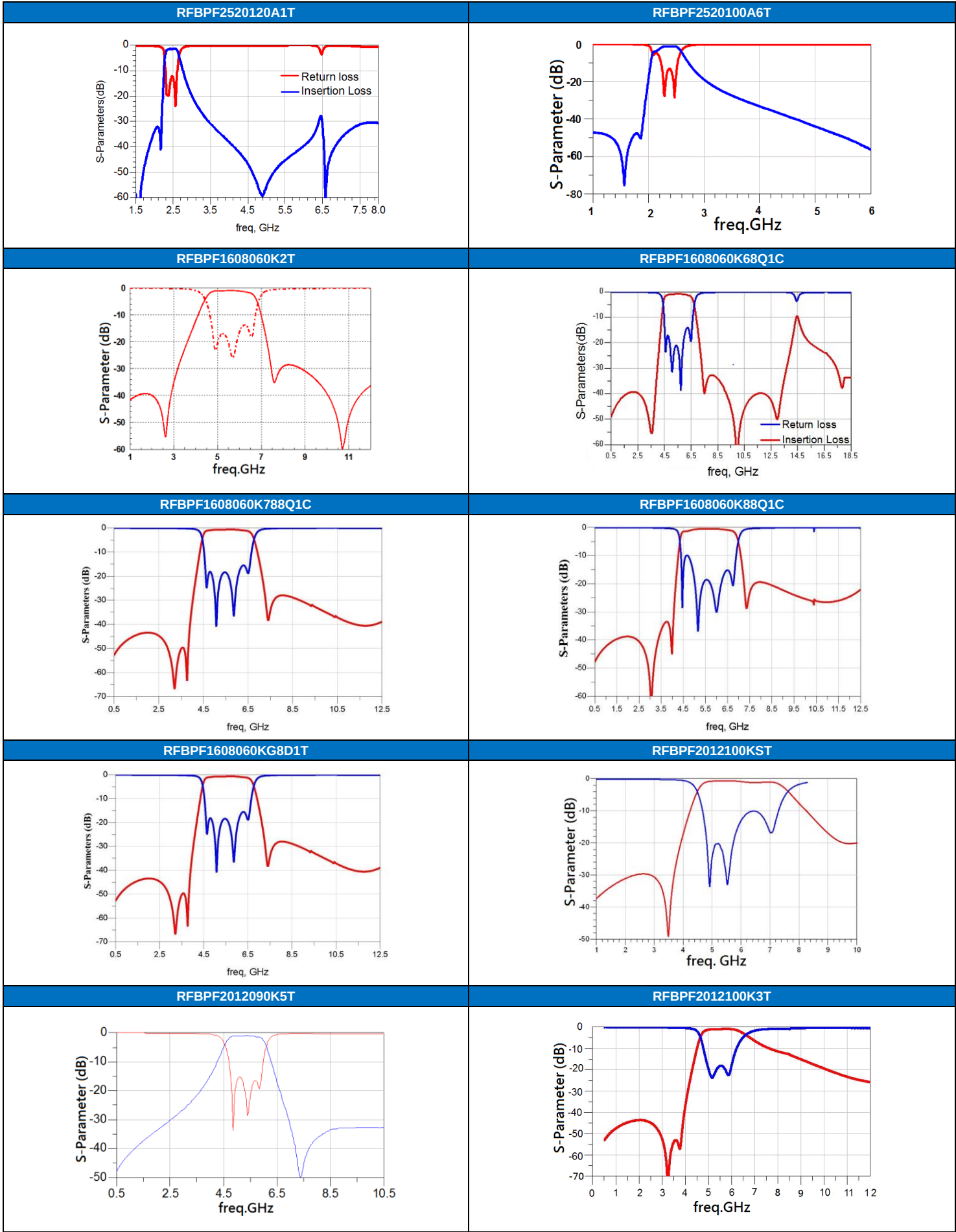


TYPICAL ELECTRICAL CHARACTERISTICS

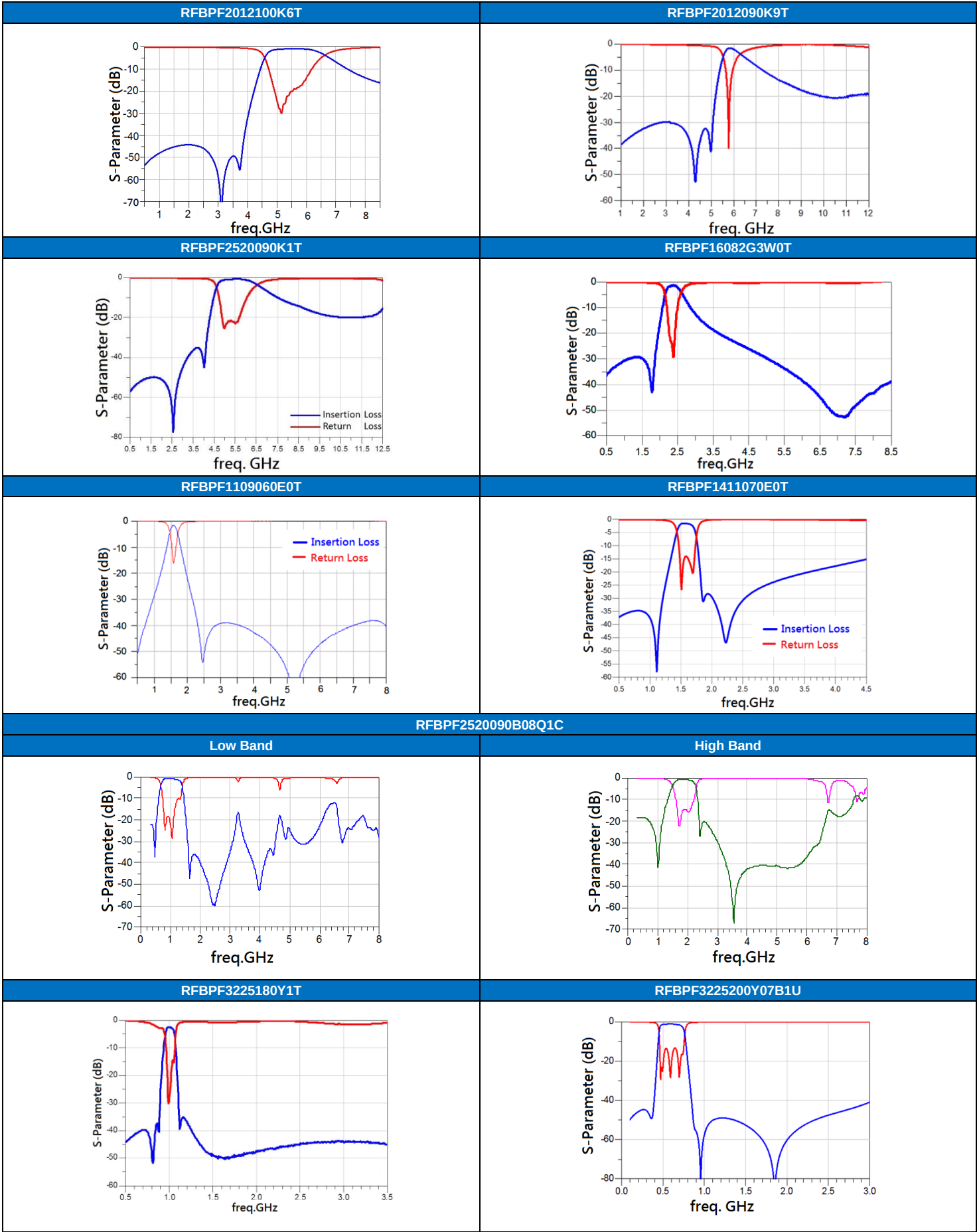


# HIGH FREQUENCY MULTILAYER BAND PASS FILTER

## TYPICAL ELECTRICAL CHARACTERISTICS



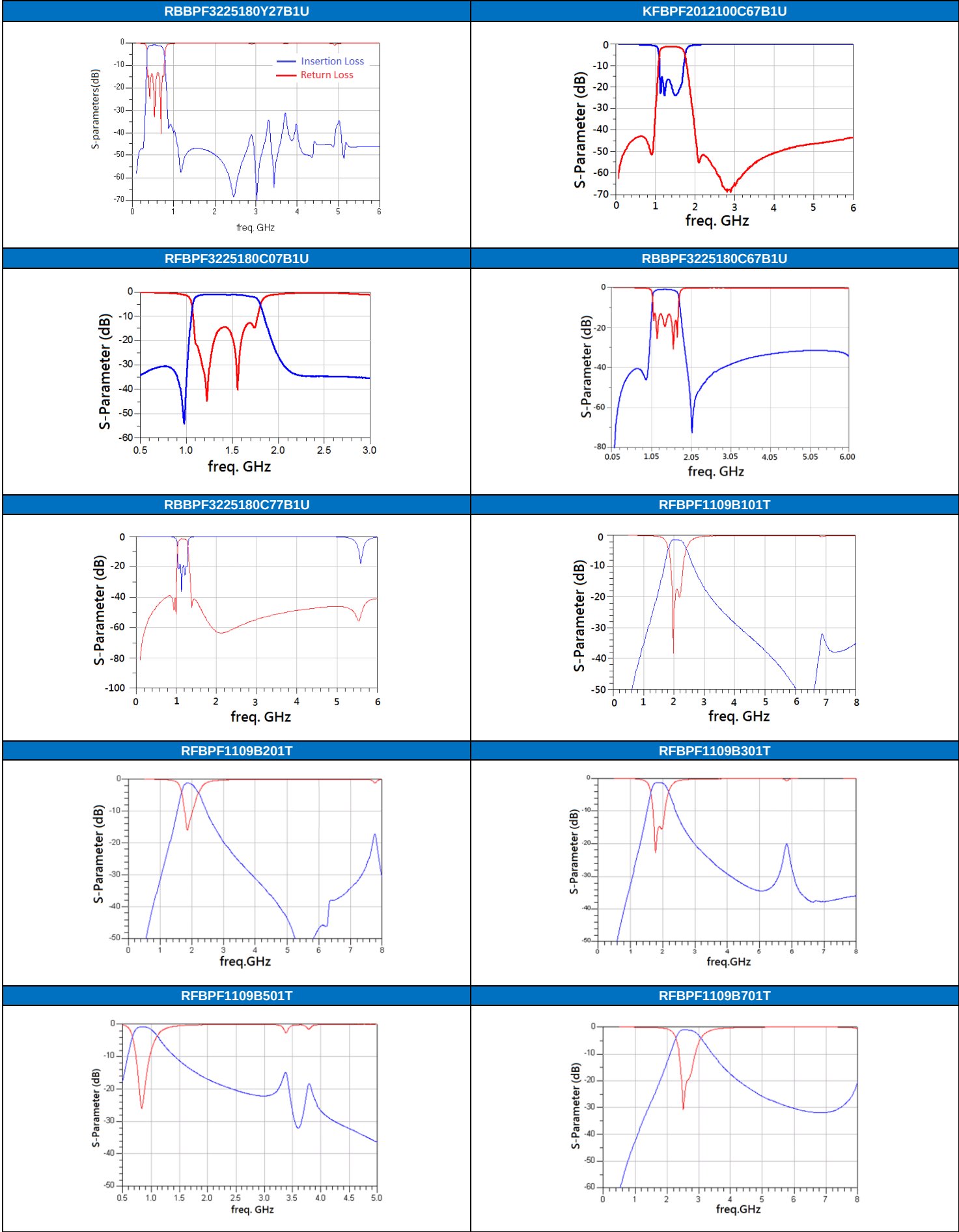
TYPICAL ELECTRICAL CHARACTERISTICS





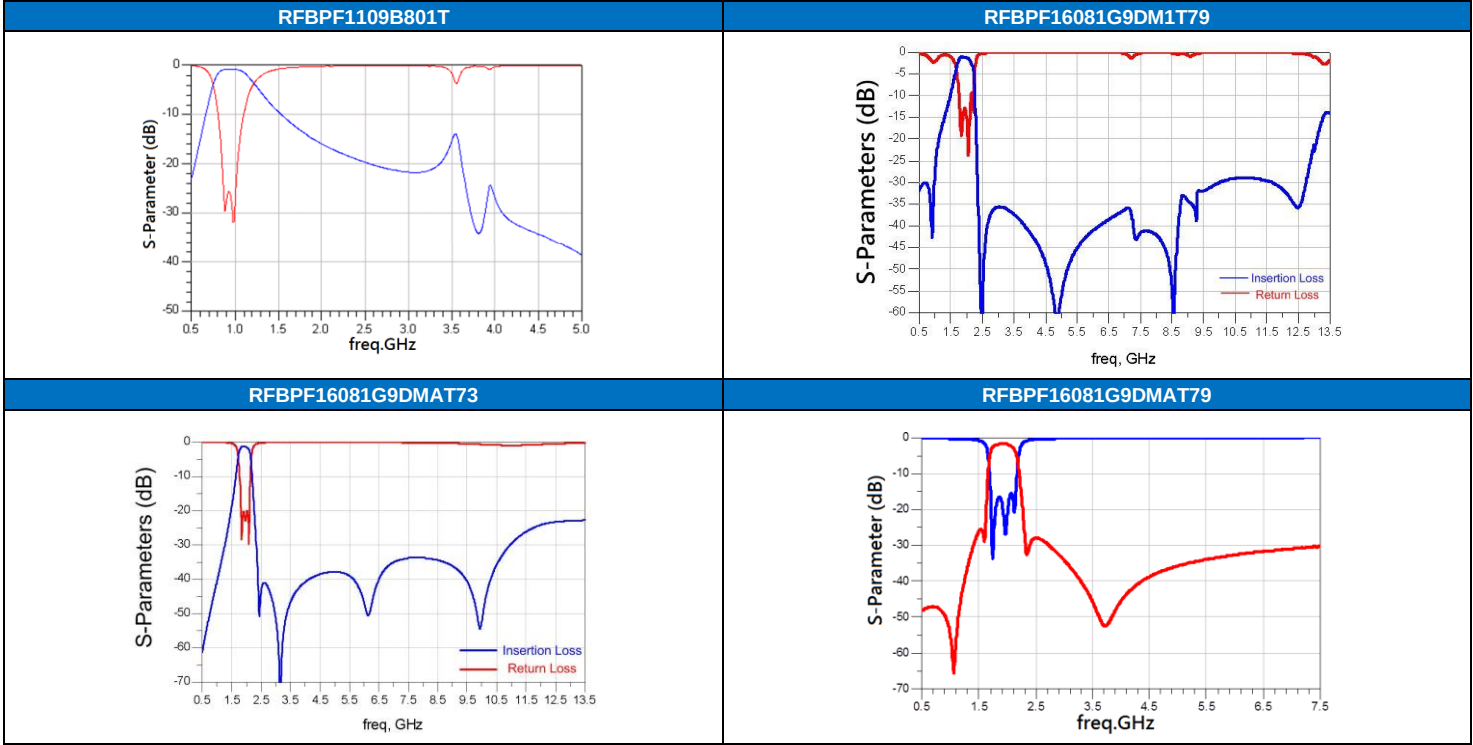
# HIGH FREQUENCY MULTILAYER BAND PASS FILTER

## TYPICAL ELECTRICAL CHARACTERISTICS





TYPICAL ELECTRICAL CHARACTERISTICS

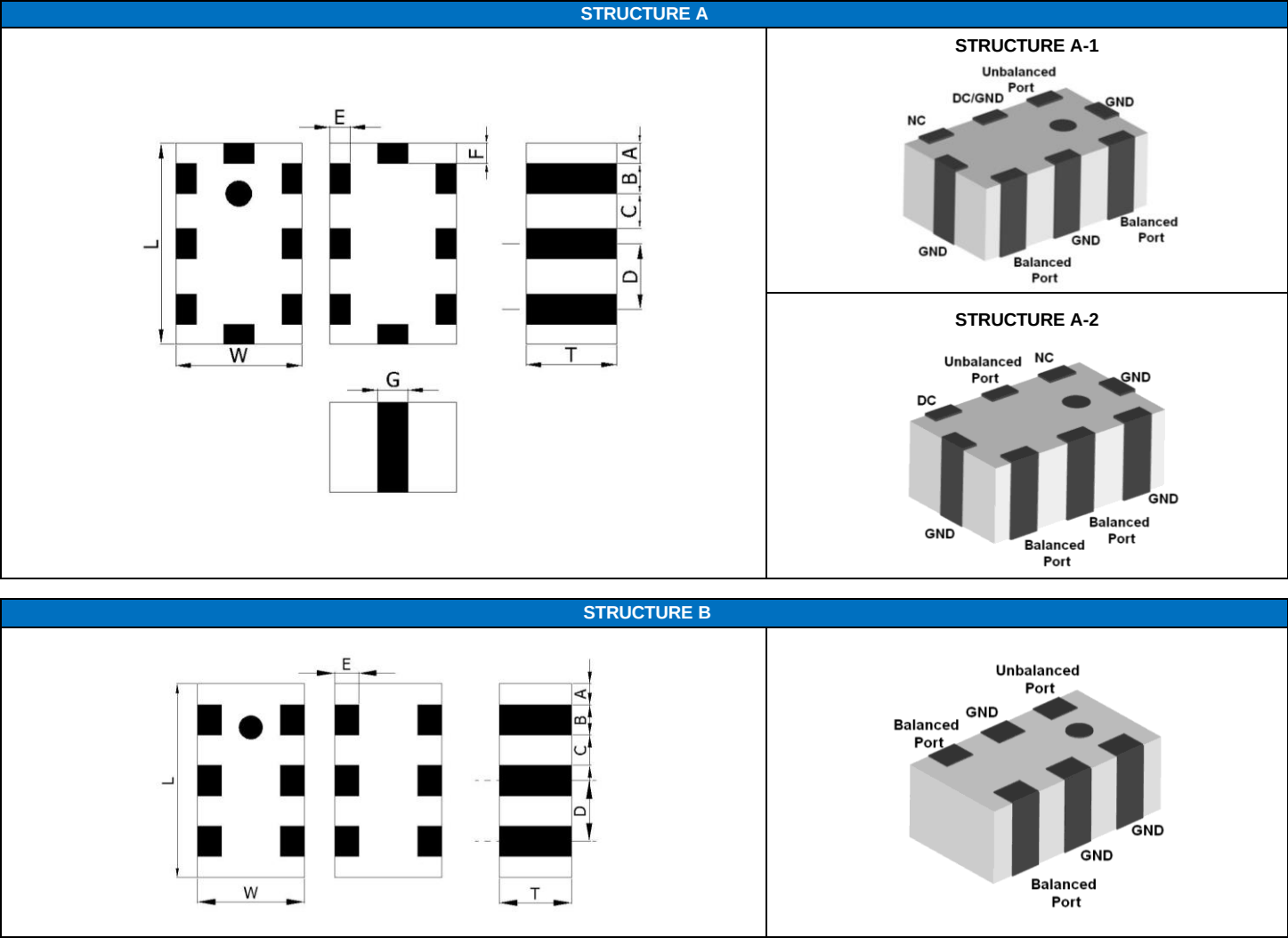


- For more information, please contact with local sales representative
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HIGH FREQUENCY  
MULTILAYER BALANCED FILTER

HIGH FREQUENCY MULTILAYER BALANCED FILTER

■ STRUCTURE AND PIN ASSOCIATED



■ STRUCTURE AND DIMENSION

| Unit: mm                |           |           |           |            |           |           |           |               |               |           |
|-------------------------|-----------|-----------|-----------|------------|-----------|-----------|-----------|---------------|---------------|-----------|
| Structure/<br>Dimension | L         | W         | T         | A          | B         | C         | D         | E             | F             | G         |
| A                       | 1.60±0.15 | 0.80±0.15 | 0.60±0.10 | 0.175±0.15 | 0.25±0.15 | 0.25±0.15 | 0.50±0.15 | 0.20±0.15     | 0.20±0.15     | 0.30±0.15 |
|                         | 2.00±0.15 | 1.20±0.10 | 0.40±0.10 | 0.175±0.10 | 0.35±0.15 | 0.30±0.15 | 0.65±0.10 | 0.20±0.10     | 0.20±0.15     | 0.50±0.10 |
|                         |           | 1.25±0.15 | 0.50±0.10 | 0.20±0.15  | 0.30±0.15 | 0.35±0.15 | 0.65±0.15 | 0.20±0.15     | 0.20±0.15     | 0.30±0.15 |
|                         |           |           | 0.60±0.10 | 0.20±0.15  | 0.30±0.10 | 0.35±0.10 | 0.65±0.10 | 0.20±0.15     | 0.20±0.15     | 0.50±0.10 |
|                         |           |           | 0.90±0.10 | 0.20±0.15  | 0.30±0.10 | 0.35±0.10 | 0.65±0.10 | 0.20±0.15     | 0.20±0.15     | 0.30±0.10 |
|                         |           |           | 1.00±0.10 | 0.20±0.15  | 0.30±0.10 | 0.35±0.10 | 0.65±0.10 | 0.20±0.10     | 0.20±0.15     | 0.50±0.10 |
|                         |           |           | 1.10±0.10 | 0.20±0.15  | 0.30±0.10 | 0.35±0.10 | 0.65±0.10 | 0.20±0.15     | 0.20±0.15     | 0.55±0.10 |
|                         |           |           |           |            | 0.50±0.10 | 0.35±0.10 | 0.65±0.10 | 0.20±0.15     | 0.20±0.15     | 0.50±0.10 |
|                         | 2.50±0.20 | 2.00±0.20 | 0.85±0.10 | 0.35±0.20  | 0.40±0.10 | 0.30±0.10 | 0.70±0.20 | 0.15(Typical) | 0.15(Typical) | 1.20±0.20 |
| B                       | 1.95±0.15 | 1.25±0.15 | 0.80±0.10 | 0.175±0.15 | 0.30±0.15 | 0.35±0.15 | 0.65±0.15 | 0.25±0.15     | -             | -         |
|                         | 2.00±0.15 | 1.25±0.10 | 0.60±0.10 | 0.20±0.10  | 0.30±0.15 | 0.35±0.15 | 0.65±0.10 | 0.25±0.10     | -             | -         |

## ■ ELECTRICAL SPECIFICATION

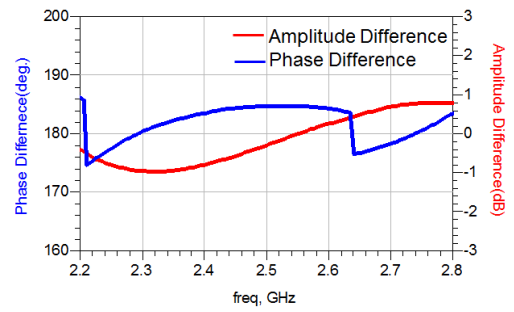
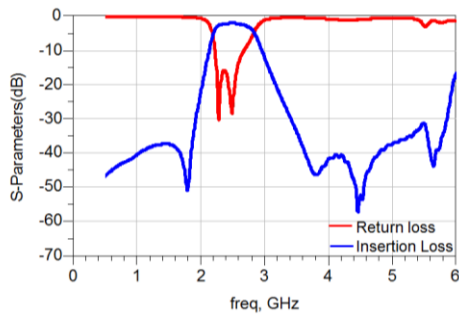
### 2.4GHz BAND WORKING FREQUENCY

| Part Number        | Frequency Range (MHz) | Impedance( $\Omega$ ) |                                                                                                                                            | Insertion Loss (dB)                     | Attenuation ( dB min. )                                                                  | VSWR (Max.) | Phase Difference | Amplitude Difference | Size (mm)          | STRUCTURE |
|--------------------|-----------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------|-------------|------------------|----------------------|--------------------|-----------|
|                    |                       | Unbalance             | Balance                                                                                                                                    |                                         |                                                                                          |             |                  |                      |                    |           |
| RFBPB2012090A1T    | 2.4~2.5               | 50                    | Conjugate match to BC series of Bluetooth chipset                                                                                          | 3.5                                     | 35(880~960MHz)<br>30(1710~1880MHz)<br>20(1880~1990MHz)<br>30(4800~5000MHz)               | 2.1         | 180°± 10         | 2                    | 2.00x1.25x0.9<br>0 | A-1       |
| RFBPB2012090A9T    | 2.4~2.5               | 50                    | Conjugate match to BC series of Bluetooth chipset                                                                                          | 2.8                                     | 35(880~960MHz)<br>30(1575MHz)<br>25(1710~1880MHz)<br>30(4800~5000MHz)                    | 2.1         | 180°± 10         | 2                    | 2.00x1.25x0.9<br>0 | A-1       |
| RFBPB2012090AAT    | 2.4~2.5               | 50                    | Conjugate match to CSR BC03/ 04 series                                                                                                     | 3.5                                     | 35(880~960MHz)<br>30(1710~1880MHz)<br>20(1880~1990MHz)<br>30(4800~5000MHz)               | 2.1         | 180°± 10         | 2                    | 2.00x1.25x0.9<br>0 | A-1       |
| RFBPB2012060ABT    | 2.4~2.5               | 50                    | Impedance match to T.I. CC253X,CC254X, CC257X, CC853X and CC852X Chipsets                                                                  | 1.5max.(25°C)<br>1.7max.<br>(-40~+85°C) | 12(1000MHz)<br>15(4800~5000MHz)<br>20(7200~7500MHz)                                      | 2.0         | 180°± 15         | 2                    | 2.00x1.25x0.6<br>0 | B         |
| RFBPB2012080AET    | 2.4~2.5               | 50                    | Impedance match to: Atmel AT86RF232, AT86RF233, ATMega256RF R2, Zigbit 256RFR2, Zigbit RF233, ZigBit RF233+FEM, Extension RF233, USB RF233 | 1.5max.(25°C)<br>1.7max.<br>(-40~+85°C) | 20(4800~5000MHz)<br>20(7200~7500MHz)                                                     | 2.0         | 180°± 10         | 2                    | 1.95x1.25x0.8<br>0 | B         |
| RFBPB2012090AHT    | 2.4~2.5               | 50                    | 100                                                                                                                                        | 3.5                                     | 30(880~960MHz)<br>30(1710~1880MHz)<br>20(1880~1990MHz)<br>30(4800~5000MHz)               | 2.0         | 180°± 10         | 2                    | 2.00x1.25x0.9<br>0 | A-1       |
| RFBPB2012090AM1T59 | 2.4~2.5               | 50                    | Conjunction to MT5931/MT6628 Chipset                                                                                                       | 2.5 (typ.2.2)                           | 35( 824~960 MHz)<br>32(1990 MHz)<br>18(2170 MHz)<br>40(4800~5000MHz)<br>25(7200~7500MHz) | 2.0         | 180°± 10         | 2                    | 2.00x1.25x0.9<br>5 | A-1       |
| RFBPB2012090AM1T61 | 2.4~2.5               | 50                    | Conjugate match to MTK MT6611 Bluetooth chipset                                                                                            | 2.8                                     | 35(880~960MHz)<br>30(1710~1880MHz)<br>20(1880~1900MHz)<br>30(4800~5000MHz)               | 2.1         | 180°± 10         | 2                    | 2.00x1.25x0.9<br>0 | A-1       |
| RFBPB2012100A6T    | 2.4~2.5               | 50                    | Conjugate match to BC series of Bluetooth chipset                                                                                          | 3.5                                     | 35(880~960MHz)<br>30(1710~1880MHz)<br>20(1880~1900MHz)<br>40(4800~5000MHz)               | 2.0         | 180°± 10         | 2                    | 2.00x1.25x1.0<br>0 | A-1       |
| RFBPB2012110A5T    | 2.4~2.5               | 50                    | 50                                                                                                                                         | 2.8                                     | 30(880~960 MHz)<br>30(1710~1880 MHz)<br>20(1880~1990 MHz)<br>30(4800~5000 MHz)           | 2.0         | 180°± 10         | 2                    | 2.00x1.25x1.1<br>0 | A-1       |
| RFBPB2520090A7T    | 2.4~2.5               | 50                    | Conjugate match to TI BRF6150                                                                                                              | 3.5                                     | 35(880~960MHz)<br>30(1710~1880MHz)<br>25(1880~1990MHz)<br>25(4800~5000MHz)               | 2.0         | 180°± 15         | 1.5                  | 2.50x2.00x0.9<br>0 | A-2       |

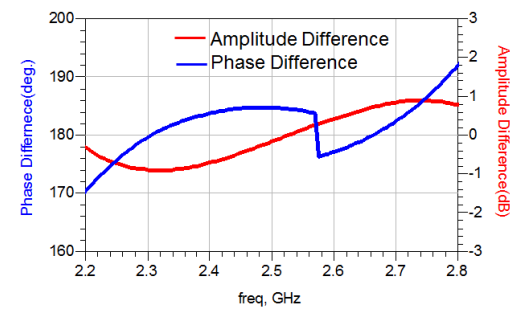
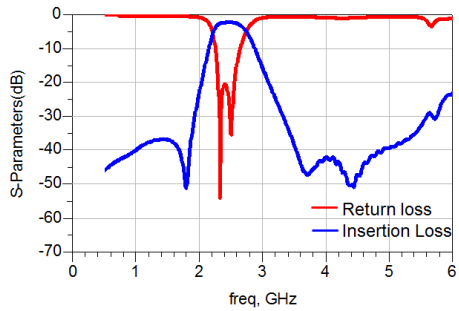
# HIGH FREQUENCY MULTILAYER BALANCED FILTER

## ■ TYPICAL ELECTRICAL CHARACTERISTICS

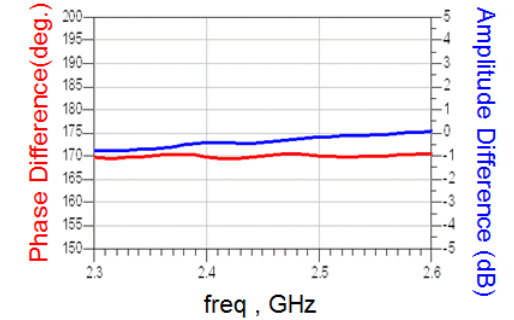
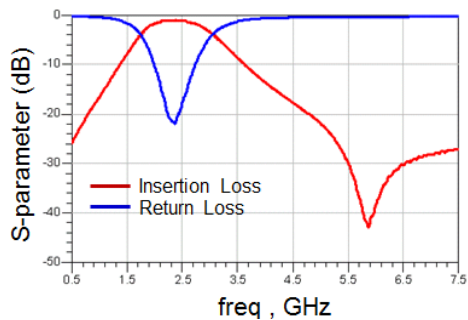
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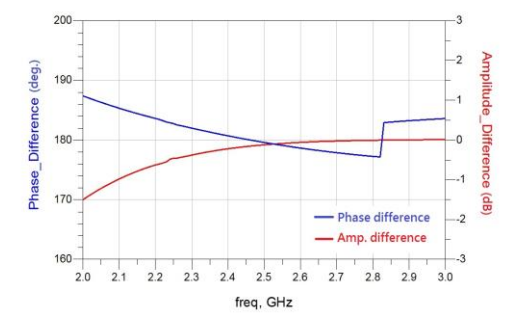
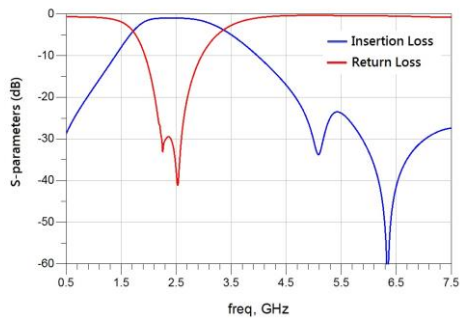
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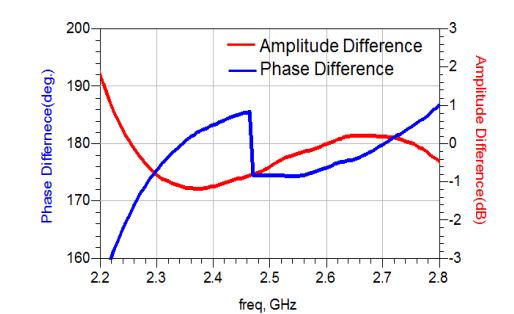
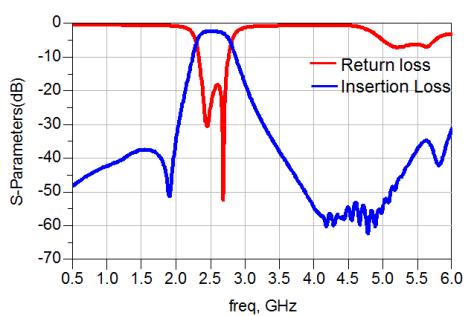
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RFBPB2012080AET

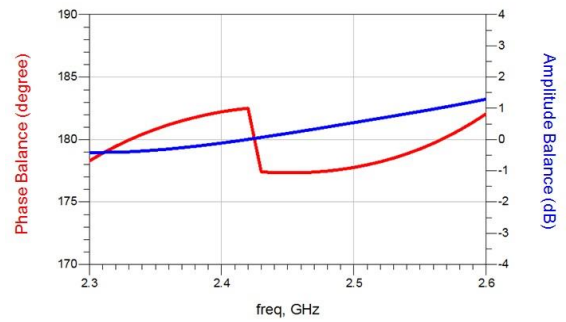
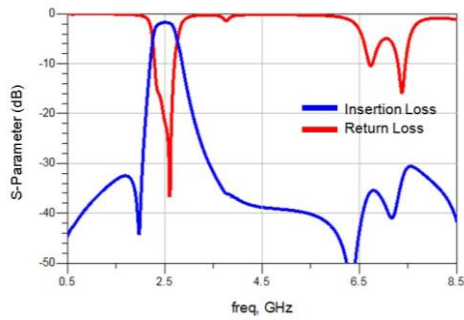


RFBPB2012090AHT

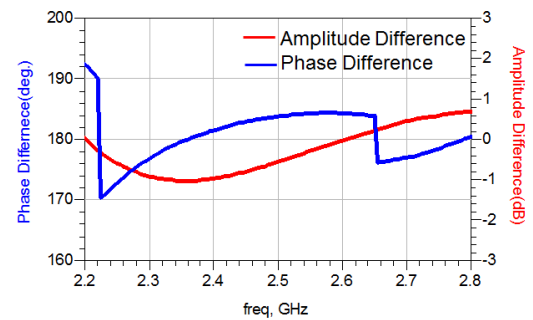
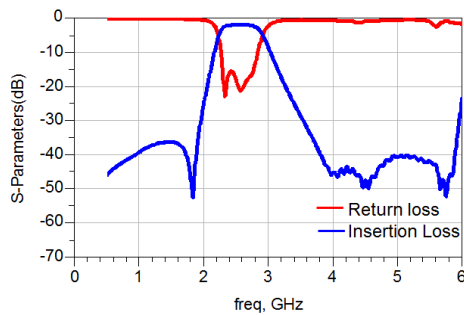


## TYPICAL ELECTRICAL CHARACTERISTICS

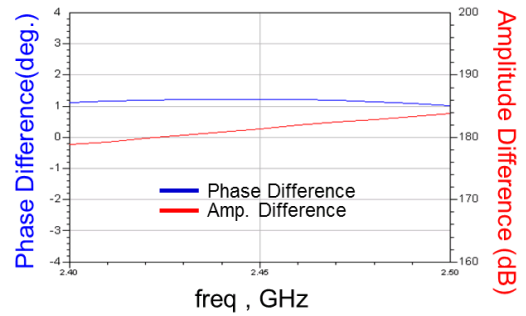
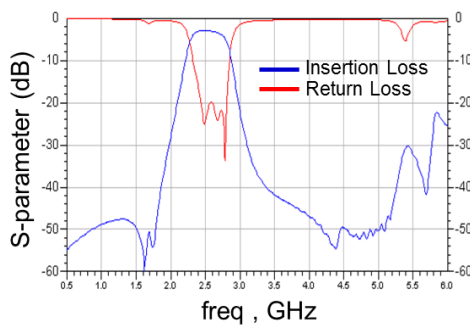
RFBPB2012090AM1T59



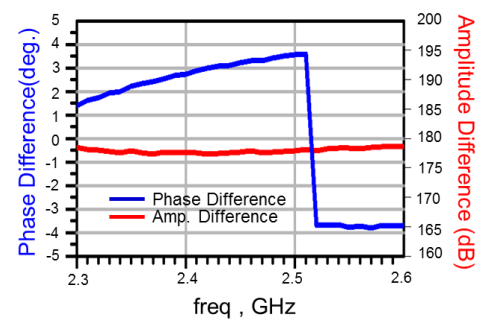
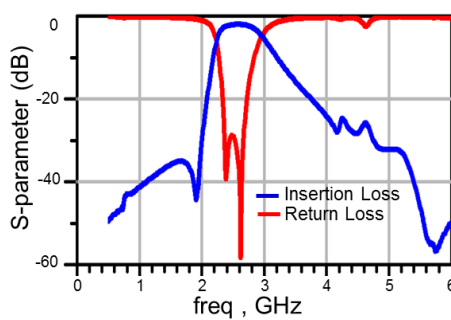
RFBPB2012090AM1T61



RFBPB2012100A6T



RFBPB2012090AM1T61

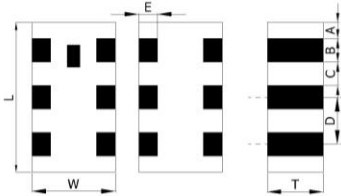
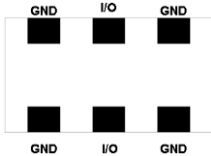
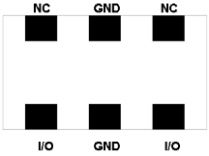
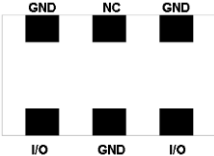
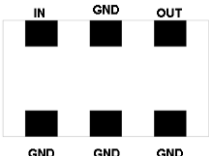
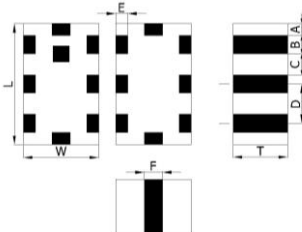
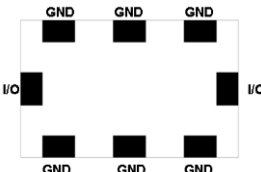
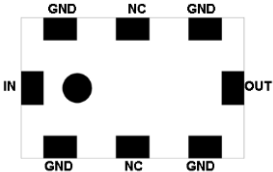
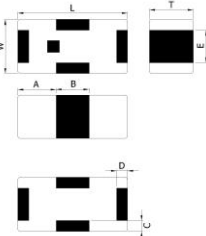
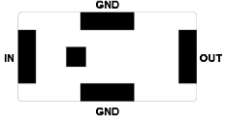
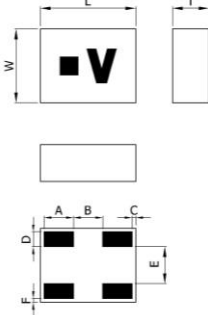
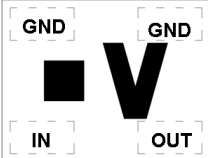
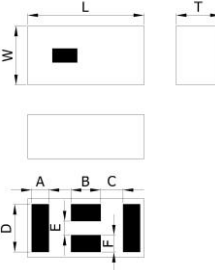
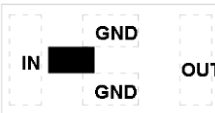
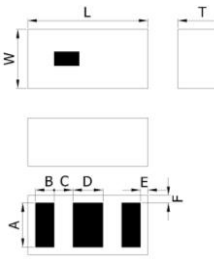
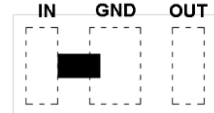
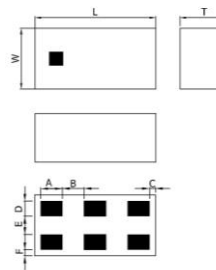
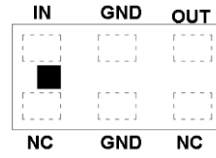
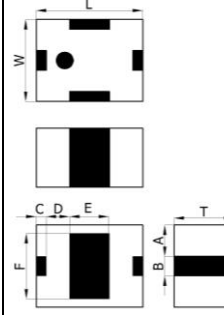
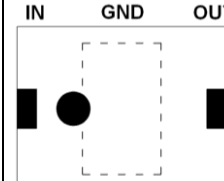


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HIGH FREQUENCY  
MULTILAYER LOW PASS FILTER

HIGH FREQUENCY MULTILAYER LOW PASS FILTER

■ STRUCTURE AND PIN ASSOCIATED

| STRUCTURE A                                                                                                                                                              |                                                                                                                                                                            |                                                                                                                                                                            |                                                                                                                                                                              |                                                                                                                                                                                |                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                          | STRUCTURE A-1                                                                                                                                                              |                                                                                                                                                                            | STRUCTURE A-2                                                                                                                                                                |                                                                                                                                                                                |                                                                                                                                                                                |
|                                                                                                                                                                          |                                                                                           |                                                                                                                                                                            |                                                                                           |                                                                                                                                                                                |                                                                                                                                                                                |
|                                                                                                                                                                          | STRUCTURE A-3                                                                                                                                                              |                                                                                                                                                                            | STRUCTURE A-4                                                                                                                                                                |                                                                                                                                                                                |                                                                                                                                                                                |
|                                                                                                                                                                          |                                                                                           |                                                                                                                                                                            |                                                                                           |                                                                                                                                                                                |                                                                                                                                                                                |
| STRUCTURE B                                                                                                                                                              |                                                                                                                                                                            |                                                                                                                                                                            |                                                                                                                                                                              |                                                                                                                                                                                |                                                                                                                                                                                |
|                                                                                        | STRUCTURE B-1                                                                                                                                                              |                                                                                                                                                                            | STRUCTURE B-2                                                                                                                                                                |                                                                                                                                                                                |                                                                                                                                                                                |
|                                                                                                                                                                          |                                                                                          |                                                                                                                                                                            |                                                                                          |                                                                                                                                                                                |                                                                                                                                                                                |
| STRUCTURE C                                                                                                                                                              | STRUCTURE D                                                                                                                                                                | STRUCTURE E                                                                                                                                                                | STRUCTURE F                                                                                                                                                                  | STRUCTURE G                                                                                                                                                                    | STRUCTURE H                                                                                                                                                                    |
| <br> | <br> | <br> | <br> | <br> | <br> |

## ■ STRUCTURE AND DIMENSION

| Unit: mm            |           |           |           |            |            |             |            |            |             |
|---------------------|-----------|-----------|-----------|------------|------------|-------------|------------|------------|-------------|
| Structure\Dimension | L         | W         | T         | A          | B          | C           | D          | E          | F           |
| A                   | 1.60±0.15 | 0.80±0.15 | 0.50max.  | 0.20±0.10  | 0.24±0.10  | 0.24±0.10   | 0.50±0.10  | 0.15±0.10  | -           |
|                     |           |           | 0.60±0.10 | 0.175±0.15 | 0.25±0.15  | 0.25±0.15   | 0.50±0.15  | 0.20±0.15  | -           |
|                     |           |           | 0.65±0.10 | 0.175±0.15 | 0.25±0.15  | 0.25±0.15   | 0.50±0.15  | 0.20±0.15  | -           |
|                     |           |           | 0.70max.  | 0.175±0.15 | 0.25±0.15  | 0.25±0.15   | 0.50±0.15  | 0.20±0.15  | -           |
| B                   | 2.00±0.15 | 1.25±0.10 | 0.90±0.10 | 0.20±0.10  | 0.30±0.10  | 0.35±0.10   | 0.65±0.10  | 0.20±0.10  | 0.20±0.10   |
|                     |           |           | 0.95±0.10 | 0.20±0.10  | 0.30±0.10  | 0.35±0.10   | 0.65±0.10  | 0.20±0.10  | 0.20±0.10   |
|                     |           |           | 1.05±0.10 | 0.20±0.10  | 0.30±0.10  | 0.35±0.10   | 0.65±0.10  | 0.20±0.10  | 0.20±0.10   |
|                     |           |           | 1.00±0.20 | 0.10min.   | 0.55±0.15  | 0.45±0.15   | 1.00±0.15  | 0.30±0.15  | 0.70±0.20   |
| C                   | 1.00±0.10 | 0.50±0.10 | 0.40±0.10 | 0.35±0.10  | 0.30±0.10  | 0.15±0.10   | 0.15±0.10  | 0.30±0.10  | -           |
|                     | 1.60±0.15 | 0.80±0.15 | 0.50max.  | 0.45±0.15  | 0.70±0.15  | 0.20±0.15   | 0.20±0.15  | 0.30±0.15  | 0.25±0.15   |
| D                   | 0.65±0.10 | 0.50±0.10 | 0.40max.  | 0.20±0.05  | 0.20±0.05  | 0.025±0.025 | 0.10±0.05  | 0.25±0.05  | 0.025±0.025 |
| E                   | 1.60±0.15 | 0.80±0.15 | 0.45max.  | 0.23±0.05  | 0.40±0.10  | 0.30±0.10   | 0.65±0.10  | 0.20±0.05  | 0.23±0.05   |
|                     |           |           | 0.65max.  | 0.23±0.05  | 0.40±0.10  | 0.30±0.10   | 0.65±0.10  | 0.20±0.05  | 0.23±0.05   |
|                     |           |           | 0.60±0.10 | 0.23±0.05  | 0.40±0.10  | 0.30±0.10   | 0.65±0.10  | 0.20±0.05  | 0.23±0.05   |
| F                   | 1.60±0.10 | 0.80±0.10 | 0.65max.  | 0.60±0.10  | 0.25±0.10  | 0.25±0.10   | 0.40±0.10  | 0.10±0.05  | 0.10±0.05   |
|                     | 2.00±0.15 | 1.25±0.10 | 0.90±0.10 | 0.95±0.10  | 0.275±0.10 | 0.25±0.10   | 0.60±0.10  | 0.175±0.10 | 0.15±0.10   |
|                     |           |           | 1.00max.  | 0.95±0.10  | 0.275±0.10 | 0.25±0.10   | 0.60±0.10  | 0.175±0.10 | 0.15±0.10   |
| G                   | 1.00±0.10 | 0.50±0.10 | 0.40 max. | 0.18±0.05  | 0.18±0.05  | 0.05±0.05   | 0.125±0.05 | 0.15±0.05  | 0.05±0.05   |
| H                   | 3.20±0.20 | 2.50±0.20 | 1.00±0.20 | 0.95±0.20  | 0.60±0.20  | 0.30±0.15   | 0.70±0.15  | 1.20±0.15  | 2.00±0.15   |
|                     |           |           | 1.80±0.20 | 0.95±0.20  | 0.60±0.20  | 0.30±0.15   | 0.70±0.15  | 1.20±0.15  | 2.00±0.15   |

## ■ ELECTRICAL SPECIFICATION

### GSM850/900GHz BAND WORKING FREQUENCY

| Part Number        | Frequency Range (MHz) | Insertion Loss (dB)                                                          | Attenuation (dB min. )                                                        | VSWR (max.) | Impedance (Ω) | Size(mm)       | Structure |
|--------------------|-----------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------|---------------|----------------|-----------|
| RFLPF06050G9D0T    | 824~915               | 0.5max.(25℃)<br>0.7max.(-40~+85℃)                                            | 20(2400~2750MHz)                                                              | 2.0         | 50            | 0.65x0.50x0.40 | D         |
| RFLPF10050G9D0T    | 824~915               | 0.6                                                                          | 25(1648~1830MHz)<br>25(2472~2745MHz)<br>25(3296~3660MHz)                      | 2.0         | 50            | 1.00x0.50x0.40 | C         |
| RFLPF10050G9D3T    | 824~915               | 0.5max.(25℃)<br>0.7max.(-40~+85℃)                                            | 25(1648~1830MHz)<br>25(2472~2745MHz)<br>25(3296~3660MHz)                      | 2.0         | 50            | 1.00x0.50x0.40 | C         |
| RFLPF10050G9D4T    | 699~915               | 0.5max.(25℃)<br>0.7max.(-40~+85℃)                                            | 25(1648~1830MHz)<br>25(2472~2745MHz)<br>25(3296~3660MHz)                      | 2.0         | 50            | 1.00x0.50x0.40 | C         |
| RFLPF10050G9D58Q1C | 814~915               | 0.5max.(25℃)<br>0.65max.(-40~+85℃)                                           | 18(1648~1830MHz)<br>17(2472~2745MHz)                                          | 2.0         | 50            | 1.00x0.50x0.40 | C         |
| RFLPF16080G9D4T    | 698~960               | 0.60(698~830MHz)<br>0.70(830~900MHz)<br>0.75(900~915MHz)<br>0.90(915~960MHz) | 30(1554~1830MHz)<br>35(2097~2745MHz)                                          | 1.6         | 50            | 1.60x0.80x0.65 | A-3       |
| RFLPF16080G9DM1T58 | 698~960               | 0.8                                                                          | 16(1565~1610MHz)<br>32(2110~2155MHz)                                          | 2.0         | 50            | 1.60x0.80x0.50 | A-4       |
| RFLPF10050G9DM1T76 | 698~960               | 0.6max.(25℃)<br>0.65max.(-40~+85℃)                                           | 13 (1554~1610MHz)<br>35(1805~1830MHz)<br>35(2110~2170MHz)<br>30(1710~2700MHz) | 2.0         | 50            | 1.00x0.50x0.40 | G         |
| RFLPF20120G9D0T    | 890~915               | 0.6max.(25℃)<br>0.75max.(-40~+85℃)                                           | 30(1780~1830MHz)<br>30(2670~2745MHz)                                          | 2.0         | 50            | 2.00x1.25x0.95 | B-2       |
| RFLPF20120G9D1T    | 890~915               | 0.6max.(25℃)<br>0.75max.(-40~+85℃)                                           | 40(1720~1765MHz)<br>30(1780~1830MHz)<br>30(2670~2745MHz)                      | 2.0         | 50            | 2.00x1.25x0.95 | B-2       |

### DCS/PCS BAND WORKING FREQUENCY

| Part Number        | Frequency Range (MHz) | Insertion Loss (dB)                                                                  | Attenuation (dB min. )                                                                          | VSWR (max.)       | Impedance (Ω) | Size(mm)       | Structure |
|--------------------|-----------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------|---------------|----------------|-----------|
| RFLPF10051G8D0T    | 1710~1910             | 0.8                                                                                  | 35(3420~3570MHz)<br>35(3700~3820MHz)<br>35(5130~5730MHz)                                        | 2.0               | 50            | 1.00x0.50x0.40 | C         |
| RFLPF10051G8DM5T51 | 1710~1910             | 0.6                                                                                  | 26(3420~3570MHz)<br>21(3700~3820MHz)<br>21(5130~5730MHz)                                        | 2.0               | 50            | 1.00x0.50x0.40 | C         |
| RFLPF10051G8DM1T76 | 1880~2025             | 1.4max.(25℃)<br>1.6max.(-40~+85℃)                                                    | 20(2400~2500MHz)<br>25(3760~4050MHz)<br>25(5150~5850MHz)<br>25(5640~6075MHz)                    | 2.0<br>(typ.1.16) | 50            | 1.00x0.50x0.40 | G         |
| RFLPF16081G8D3T    | 1710~1910             | 0.45max.(25℃)<br>0.55max.(-40~+85℃)                                                  | 30(3420~3570MHz)<br>25(3700~3820MHz)<br>25(5130~5730MHz)                                        | 2.0               | 50            | 1.60x0.80x0.50 | C         |
| RFLPF16081G8D78Q1C | 1880~2025             | 1.4                                                                                  | 25(2400~2500MHz)<br>18(4020~4045MHz)<br>25(6030~6075MHz)                                        | 2.0               | 50            | 1.60x0.80x0.60 | F         |
| RFLPF16081G8DC8Q1C | 1880~2170             | 0.60(1880~1920MHz)<br>0.70(1920~1980MHz)<br>0.80(2010~2170MHz)<br>2.00(2025~2170MHz) | 15(2400~2500MHz)<br>20(3760~4050MHz)<br>12(5150~5850MHz)<br>12(5640~6075MHz)<br>5(7520~8100MHz) | 2.0               | 20            | 1.60x0.80x0.60 | E         |
| RFLPF20121G8D1T    | 1880~2025             | 1.35max.(25℃)<br>1.50max.(-40~+85℃)                                                  | 38(2400~2500MHz)<br>25(4020~4045MHz)<br>27(6030~6075MHz)                                        | 1.9               | 50            | 2.00x1.20x0.90 | F         |



# HIGH FREQUENCY

## MULTILAYER LOW PASS FILTER

### 2.4GHz BAND WORKING FREQUENCY

| Part Number        | Frequency Range (MHz) | Insertion Loss (dB)                   | Attenuation (dB min.)                                                                                                                                                                                                                                    | VSWR (max.)      | Impedance (Ω) | Size(mm)       | Structure |
|--------------------|-----------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|----------------|-----------|
| RFLPF1005040A0T    | 2450±50               | 0.45max.(25°C)<br>0.55max.(-40~+85°C) | 21(4800~5000MHz)<br>21(7200~7500MHz)                                                                                                                                                                                                                     | 1.7              | 50            | 1.00x0.50x0.40 | C         |
| RFLPF1005040A1T    | 2450±50               | 0.75                                  | 33(4800~5000MHz)<br>37(7200~7500MHz)                                                                                                                                                                                                                     | 2.0              | 50            | 1.00x0.50x0.40 | C         |
| RFLPF1005040A2T    | 2450±50               | 0.75max.(25°C)<br>0.90max.(-40~+85°C) | 32(4800~5000MHz)<br>35(7200~7500MHz)                                                                                                                                                                                                                     | 2.0              | 50            | 1.00x0.50x0.40 | C         |
| RFLPF1608060AM2T66 | 2450±50               | 0.65<br>(typ.0.55)                    | 20(3603~3720MHz)<br>30(4804~4960MHz)<br>10(6005~6200MHz)<br>20(7206~7440MHz)<br>10(8407~8680MHz)<br>20(9608~9920MHz)<br>10(10809~11160MHz)<br>10(12010~12400MHz)<br>10(13211~13640MHz)<br>15(14412~14880MHz)<br>10(15613~16120MHz)<br>10(16814~17360MHz) | 2.0<br>(typ.1.5) | 50            | 1.60x0.80x0.65 | A-1       |
| RFLPF1608060AAT    | 2450±50               | 0.65                                  | 20(3603~3720MHz)<br>30(4804~4960MHz)<br>10(6005~6200MHz)<br>20(7206~7440MHz)<br>10(8407~8680MHz)<br>20(9608~9920MHz)<br>10(10809~11160MHz)<br>10(12010~12400MHz)<br>10(13211~13640MHz)<br>15(14412~14880MHz)<br>10(15613~16120MHz)<br>10(16814~17360MHz) | 2.0              | 50            | 1.60x0.80x0.70 | A-1       |
| RFLPF1608060ABT    | 2450±50               | 0.50                                  | 35(4800~5000MHz)<br>25(7200~7500MHz)                                                                                                                                                                                                                     | 2.0              | 50            | 1.60x0.80x0.60 | A-1       |
| RFLPF1608060A0T    | 2450±50               | 0.65<br>(typ.0.48)                    | 35(4800MHz(typ.40))<br>27(7200MHz(typ.40))                                                                                                                                                                                                               | 1.5              | 50            | 1.60x0.80x0.60 | A-1       |
| RFLPF1608060A1T    | 2450±50               | 0.6                                   | 27(4800~5000MHz)<br>30(7200~7500MHz)                                                                                                                                                                                                                     | 2.0              | 50            | 1.60x0.80x0.60 | A-2       |
| RFLPF1608060A2T    | 2450±50               | 0.42                                  | 25(4800MHz)<br>18(7200MHz)                                                                                                                                                                                                                               | 1.5              | 50            | 1.60x0.80x0.60 | A-1       |
| RFLPF1608060A9T    | 2450±50               | 0.50max.(25°C)<br>0.60max.(-40~+85°C) | 20(3400MHz)<br>20(3600MHz)<br>30(4800~5000MHz)<br>30(7200~7500MHz)                                                                                                                                                                                       | 2.0              | 50            | 1.60x0.80x0.60 | E         |
| RFLPF2012110A0T    | 2450±50               | 0.7                                   | 30(2x(f <sub>0</sub> ±BW/2))<br>20(3x(f <sub>0</sub> ±BW/2))                                                                                                                                                                                             | 1.5              | 50            | 2.00x1.25x1.05 | B-1       |

### 5GHz BAND WORKING FREQUENCY

| Part Number     | Frequency Range (MHz) | Insertion Loss (dB)           | Attenuation (dB min.)                                          | VSWR (max.) | Impedance (Ω) | Size(mm)       | Structure |
|-----------------|-----------------------|-------------------------------|----------------------------------------------------------------|-------------|---------------|----------------|-----------|
| RFLPF1608050K0T | 5400±500              | 0.60(25°C)<br>0.70(-40~+85°C) | 25(9800MHz)<br>30(11900MHz)<br>20(17850MHz)<br>(for reference) | 2.0         | 50            | 1.60x0.85x0.50 | C         |
| RFLPF2012090K0T | 5400±500              | 0.55(25°C)<br>0.65(-40~+85°C) | 30(9800MHz)<br>30(11800MHz)<br>20(17550MHz)<br>(for reference) | 2.0         | 50            | 2.00x1.25x0.90 | B-1       |

### LTE BAND APPLICATION

| Part Number        | Frequency Range (MHz) | Insertion Loss (dB)                                                          | Attenuation (dB min.)                                                        | VSWR (max.) | Impedance (Ω) | Size(mm)       | Structure |
|--------------------|-----------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------|---------------|----------------|-----------|
| RFLPF1005040Y0T    | 617~798               | 0.60(25°C)<br>0.65(-40~+85°C)                                                | 25(1565~1607MHz)<br>30(1920~1980MHz)                                         | 2.0         | 50            | 1.00x0.50x0.40 | G         |
| RFLPF1005040YM1T76 | 746~878               | 0.60(25°C)<br>0.65(-40~+85°C)                                                | 30(1554~1610MHz)<br>25(2238~2361MHz)                                         | 2.0         | 50            | 1.00x0.50x0.40 | G         |
| RFLPF1608060Y08Q1C | 470~787               | 0.65(25°C)<br>0.71(-40~+85°C)                                                | 26(1429~1501MHz)<br>30(1565~1607MHz)<br>35(1570~1580MHz)<br>18(1920~1980MHz) | 2.0         | 50            | 1.60x0.85x0.65 | A-3       |
| RFLPF1608060Y18Q1C | 698~960               | 0.60(698~830MHz)<br>0.70(830~900MHz)<br>0.75(900~915MHz)<br>0.90(915~960MHz) | 30(1554~1830MHz)<br>35(2097~2745MHz)                                         | 1.6         | 50            | 1.60x0.85x0.65 | A-3       |
| RFLPF2012090Y2T    | 400~470               | 0.50(25°C)<br>0.65(-40~+85°C)                                                | 33(800~940MHz)                                                               | 2.0         | 50            | 2.00x1.25x0.90 | F         |
| RFLPF2012090Y3T    | 500~700               | 0.65(25°C)<br>0.80(-40~+85°C)                                                | 33(1000~1400MHz)                                                             | 2.0         | 50            | 2.00x1.25x0.90 | F         |
| RFLPF2012100Y0T    | DC~500                | 0.70                                                                         | 9(824~960MHz)<br>25(1710~1990MHz)<br>25(2400~4000MHz)                        | 2.0         | 50            | 2.00x1.25x0.95 | B-2       |
| RFLPF1608060E0T    | 1400~2690             | 0.25(25°C)<br>0.30(-40~+85°C)                                                | 25(4905~5845MHz)                                                             | 1.92        | 50            | 1.60x0.85x0.65 | F         |
| RFLPF1608060F0T    | 600~2700              | 0.50                                                                         | 30(4800~8000MHz)<br>25(8500~12500MHz)                                        | 2.0         | 50            | 1.60x0.85x0.65 | F         |

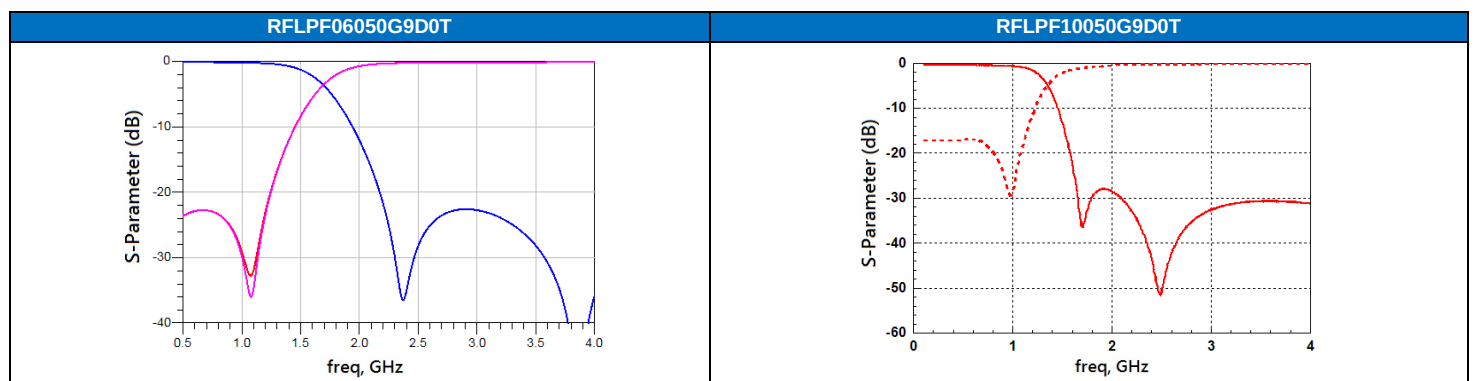
## LTE BAND APPLICATION

| Part Number        | Frequency Range (MHz)              | Insertion Loss (dB)                                        | Attenuation (dB min. )                                                                                                                                                           | VSWR (max.) | Impedance (Ω) | Size(mm)       | Structure |
|--------------------|------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|----------------|-----------|
| RFLPF1608060F18Q1C | 673~2690                           | 0.50                                                       | 35(4950~6000MHz)<br>35(6000~7500MHz)<br>35(7500~8100MHz)<br>35(8100~10500MHz)<br>27(10500~12500MHz)                                                                              | 2.0         | 50            | 1.60x0.85x0.65 | F         |
| RFLPF1608060F88Q1C | 10~2700                            | 0.5                                                        | 30(4900~5950MHz)                                                                                                                                                                 | 2.0         | 50            | 1.60x0.85x0.65 | E         |
| RFLPF2012100F18Q1C | 1710~2170                          | 1.30(25°C)<br>1.50(-40~+85°C)                              | 15(2400~2500MHz)<br>25(3250~3350MHz)<br>25(3420~3570MHz)<br>23(3700~3820MHz)<br>23(3840~3960MHz)<br>23(4100~4600MHz)<br>25(4905~5845MHz)<br>23(5850~6400MHz)<br>20(6600~7350MHz) | 1.56        | 50            | 2.00x1.25x1.00 | B-2       |
| RFLPF2012100F28Q1C | DC~2170                            | 0.75(25°C)<br>0.85(-40~+85°C)                              | 10(2400~2500MHz)<br>23(3250~3350MHz)<br>20(3420~3570MHz)<br>18(3700~3820MHz)<br>18(3840~3960MHz)<br>18(4100~4600MHz)<br>20(4905~5845MHz)<br>18(5850~6400MHz)<br>5(6600~7350MHz)  | 2.0         | 50            | 2.00x1.25x1.00 | F         |
| RFLPF10052G5WM1T76 | 2300~2700                          | 0.5(25°C)<br>0.6(-40~+85°C)                                | 25(4600~5400MHz)<br>25(6900~8100MHz)                                                                                                                                             | 2.0         | 50            | 1.00x0.50x0.40 | G         |
| RFLPF16082G6W0T    | 2400~2690                          | 0.6                                                        | 26(4800~5390MHz)<br>23(7200~8085MHz)                                                                                                                                             | 2.0         | 50            | 1.60x0.80x0.60 | A-2       |
| RFLPF16082G6W2T    | 2300~2700                          | 0.40(25°C)<br>0.43(-40~+85°C)                              | 21(4600~5400MHz)<br>22(6900~8100MHz)                                                                                                                                             | 2.0         | 50            | 1.60x0.80x0.60 | A-2       |
| RFLPF16082G5W0T    | 2300~2700                          | 0.90(25°C)<br>1.00(-40~+85°C)                              | 30(4600~5400MHz)<br>30(6900~8100MHz)<br>20(9200~10800MHz)<br>15(11500~13500MHz)                                                                                                  | 1.8         | 50            | 1.60x0.80x0.60 | A-1       |
| RFLPF16082G5W6T    | 2300~2700                          | 0.55                                                       | 40(4600~5400MHz)<br>25(6900~8100MHz)                                                                                                                                             | 1.7         | 50            | 1.60x0.80x0.60 | A-1       |
| RFLPF16082G5WM0T29 | 2300~2690                          | 0.80<br>(typ.0.40)                                         | 25(4600~5400MHz)<br>25(6900~8070MHz)                                                                                                                                             | 2.0         | 50            | 1.60x0.80x0.60 | A-1       |
| RFLPF16083G5W7T    | 3300~3800                          | 0.55                                                       | 17(6600~7600MHz)<br>20(9900~11400MHz)                                                                                                                                            | 1.9         | 50            | 1.60x0.80x0.60 | A-3       |
| RFLPF2012090BM0T29 | 800~1000<br>1700~1910<br>2010~2025 | 0.5(800~1000MHz)<br>0.8(1700~1910MHz)<br>1.5(2010~2025MHz) | 20(2300~3700MHz)<br>30(3700~4100MHz)<br>20(4100~6100MHz)<br>10(6100~8000MHz)                                                                                                     | 2.0         | 50            | 2.00x1.25x0.90 | F         |

## MoCA APPLICATION

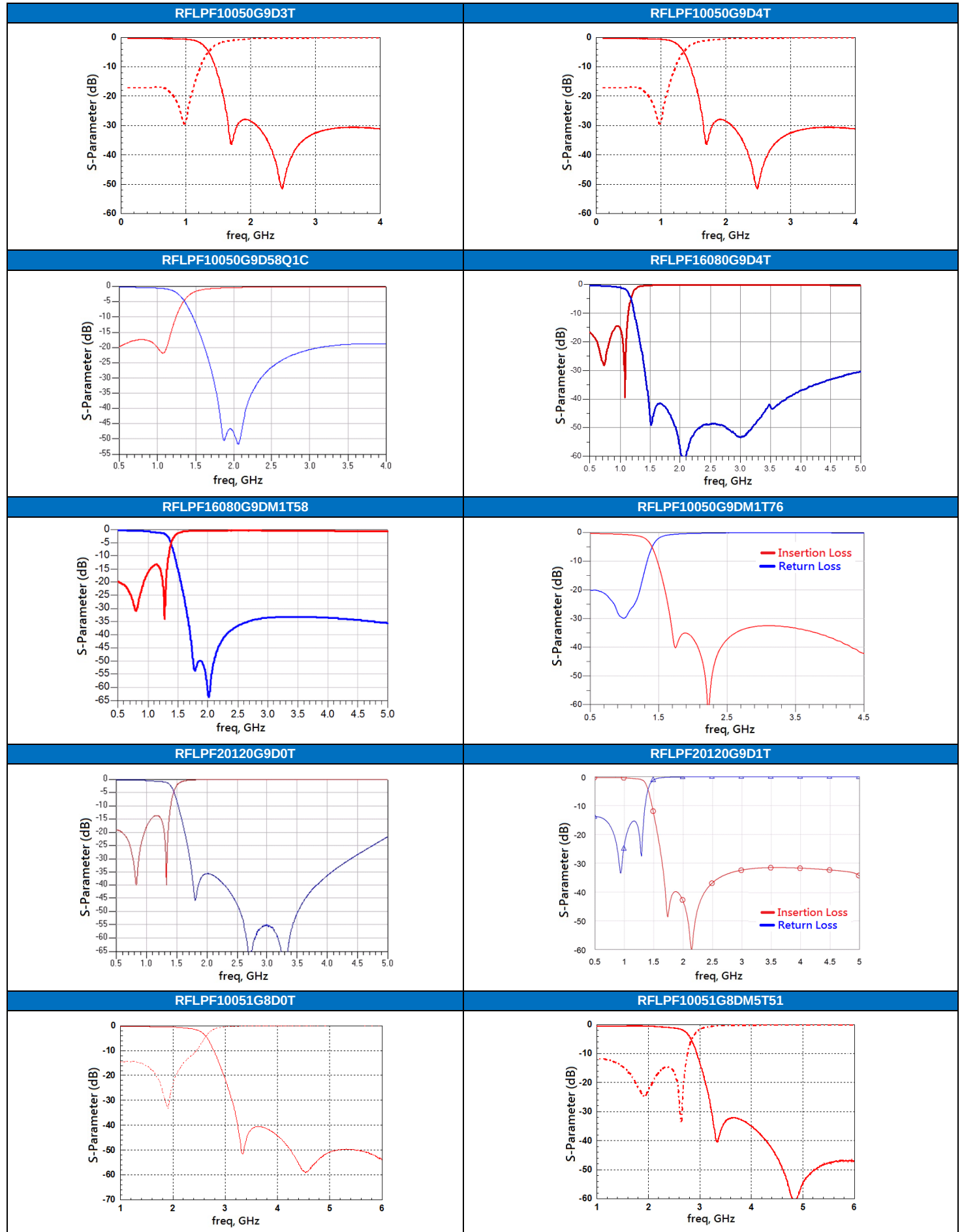
| Part Number        | Frequency Range (MHz) | Insertion Loss (dB)          | Attenuation ( dB min. )              | VSWR (max.) | Impedance (Ω) | Size(mm)       | Structure |
|--------------------|-----------------------|------------------------------|--------------------------------------|-------------|---------------|----------------|-----------|
| RFLPF3225180Y1T    | 54~870                | 2.5                          | 35(975~1675MHz)                      | 2.0         | 75            | 3.20x2.50x1.80 | H         |
| RFLPF3225100Q07B1U | 5~1002                | 2.4(25°C)<br>2.6(-40~+85°C)  | 36(1125~1675MHz)                     | 2.0         | 75            | 3.20x2.50x1.00 | H         |
| RFLPF3225100Q2T    | 5~1002                | 2.4(25°C)<br>2.6(-40~+85°C)  | 28(1125~1675MHz)                     | 1.9         | 75            | 3.20x2.50x1.00 | B-1       |
| RFLPF3225200Q5T    | 5~1002                | 1.8(25°C)<br>2.05(-40~+85°C) | 33(1125~1400MHz)<br>26(1400~1675MHz) | 2.0         | 75            | 3.20x2.50x1.80 | H         |

## ■ TYPICAL ELECTRICAL CHARACTERISTICS

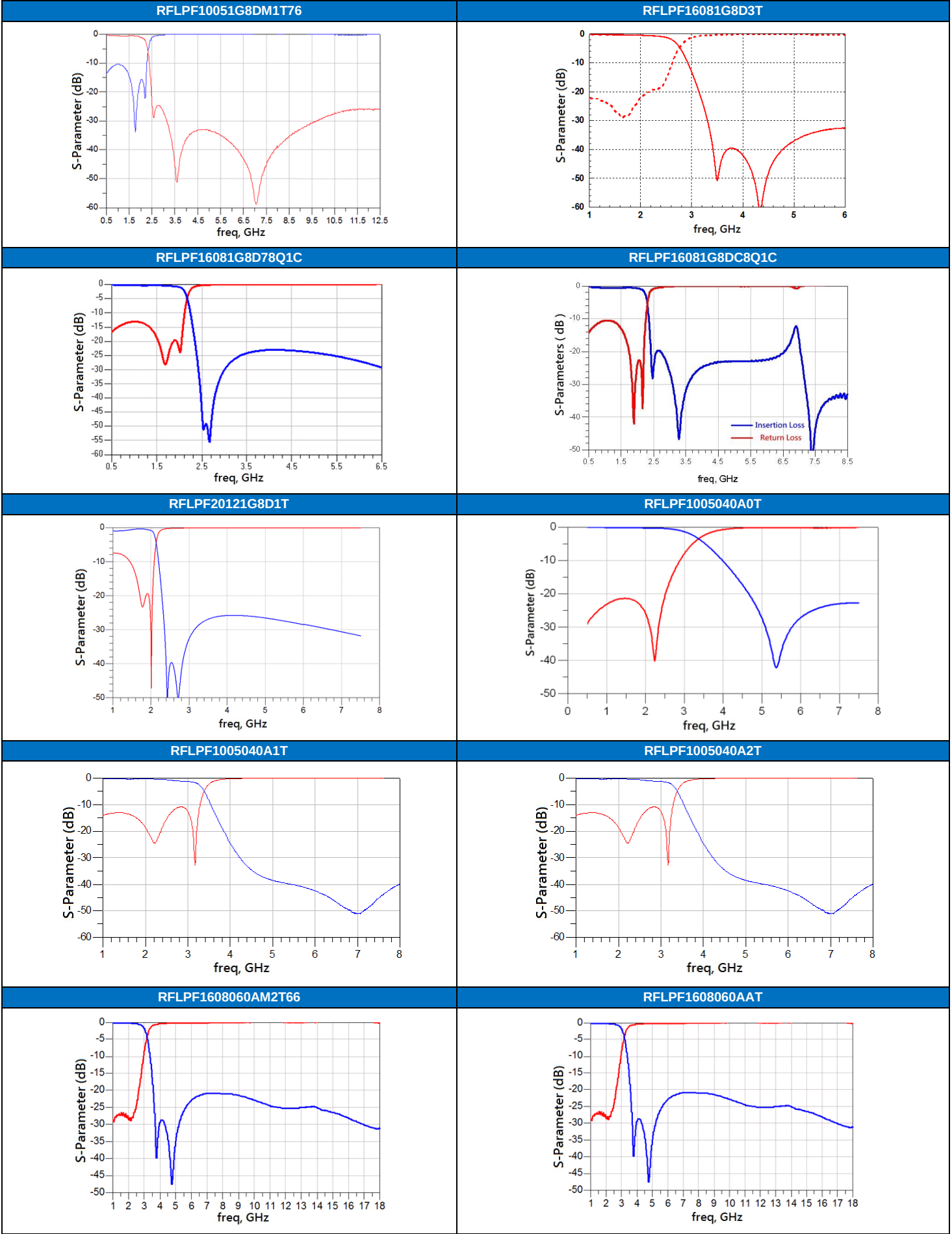


# HIGH FREQUENCY MULTILAYER LOW PASS FILTER

## TYPICAL ELECTRICAL CHARACTERISTICS

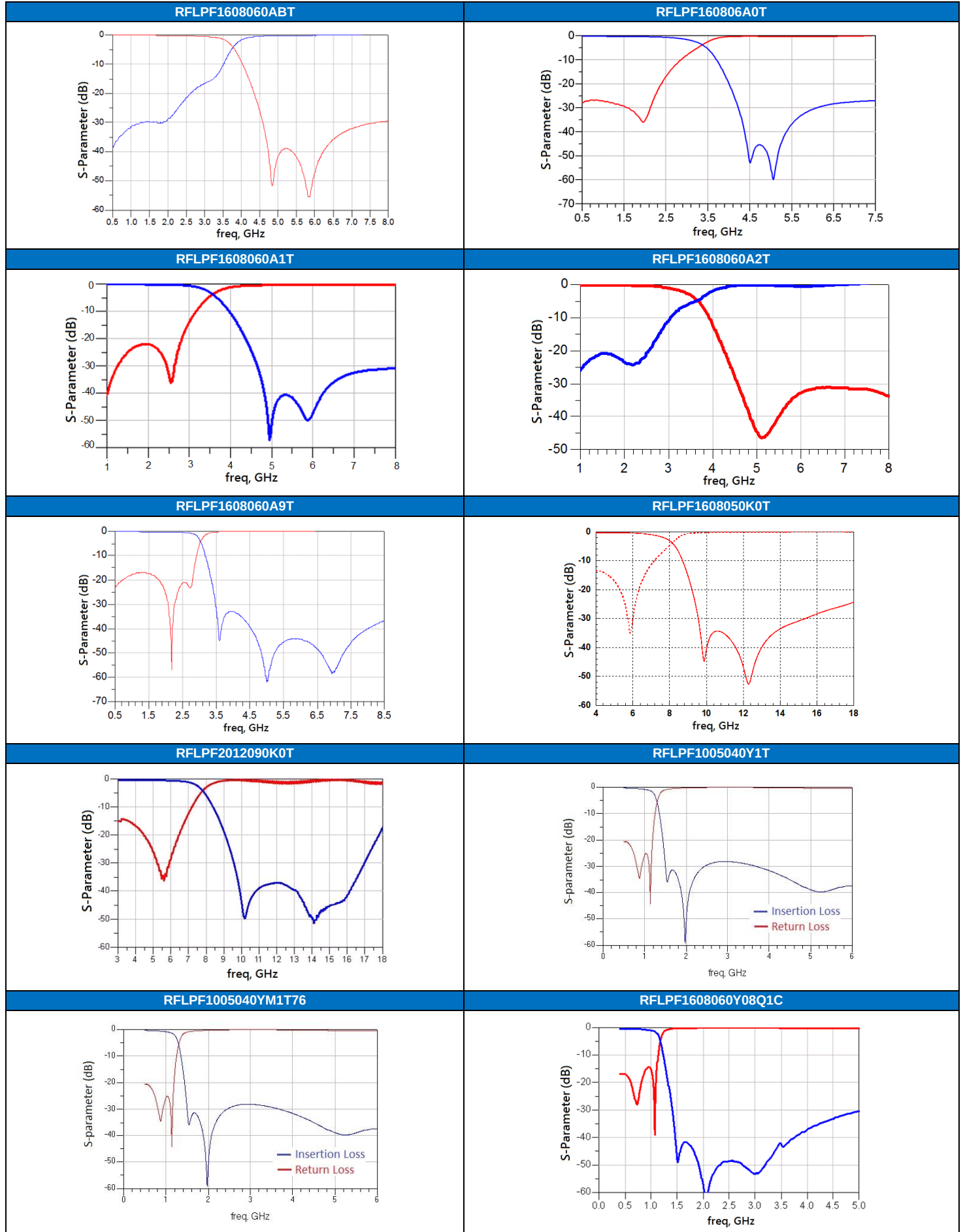


TYPICAL ELECTRICAL CHARACTERISTICS

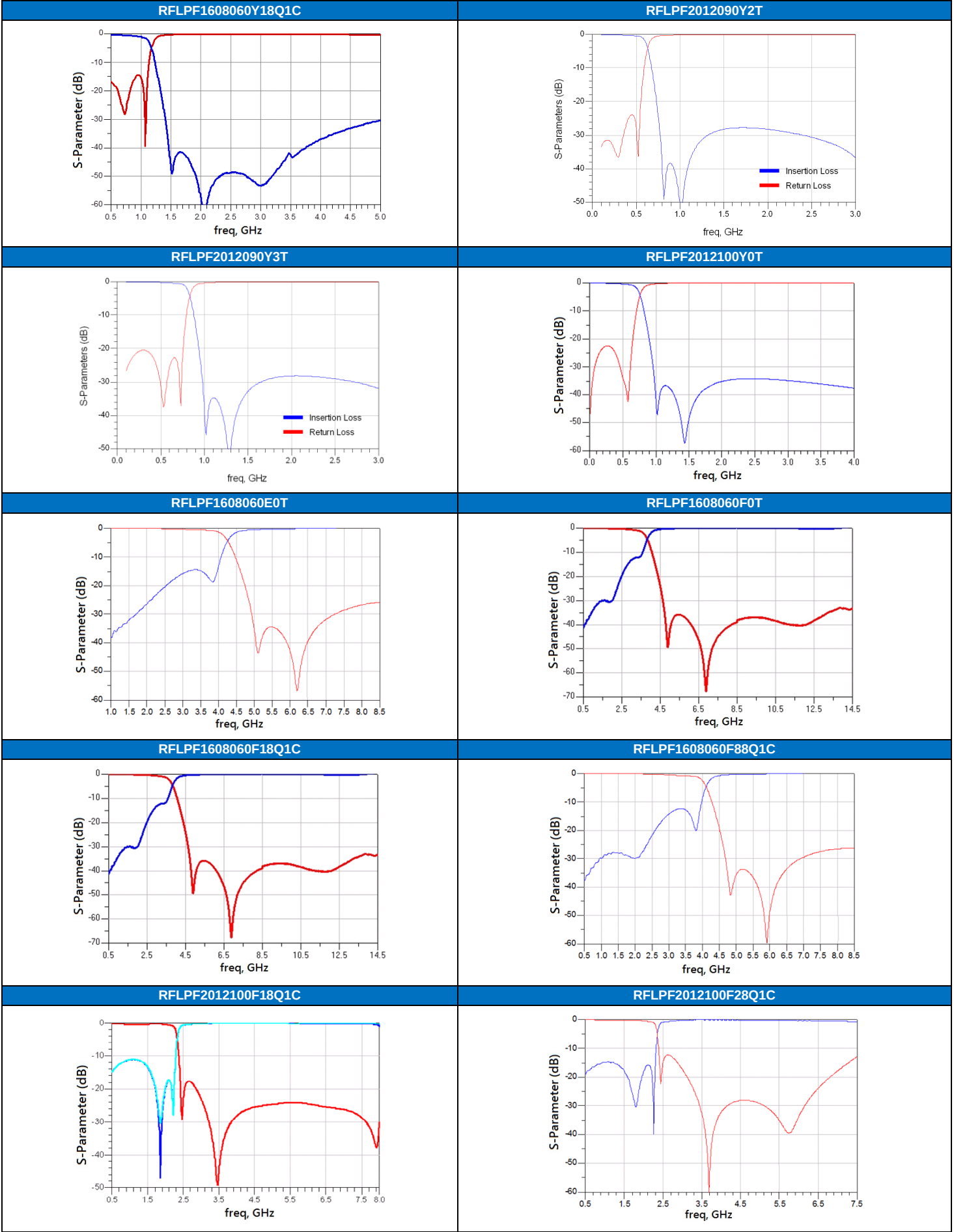


# HIGH FREQUENCY MULTILAYER LOW PASS FILTER

## TYPICAL ELECTRICAL CHARACTERISTICS



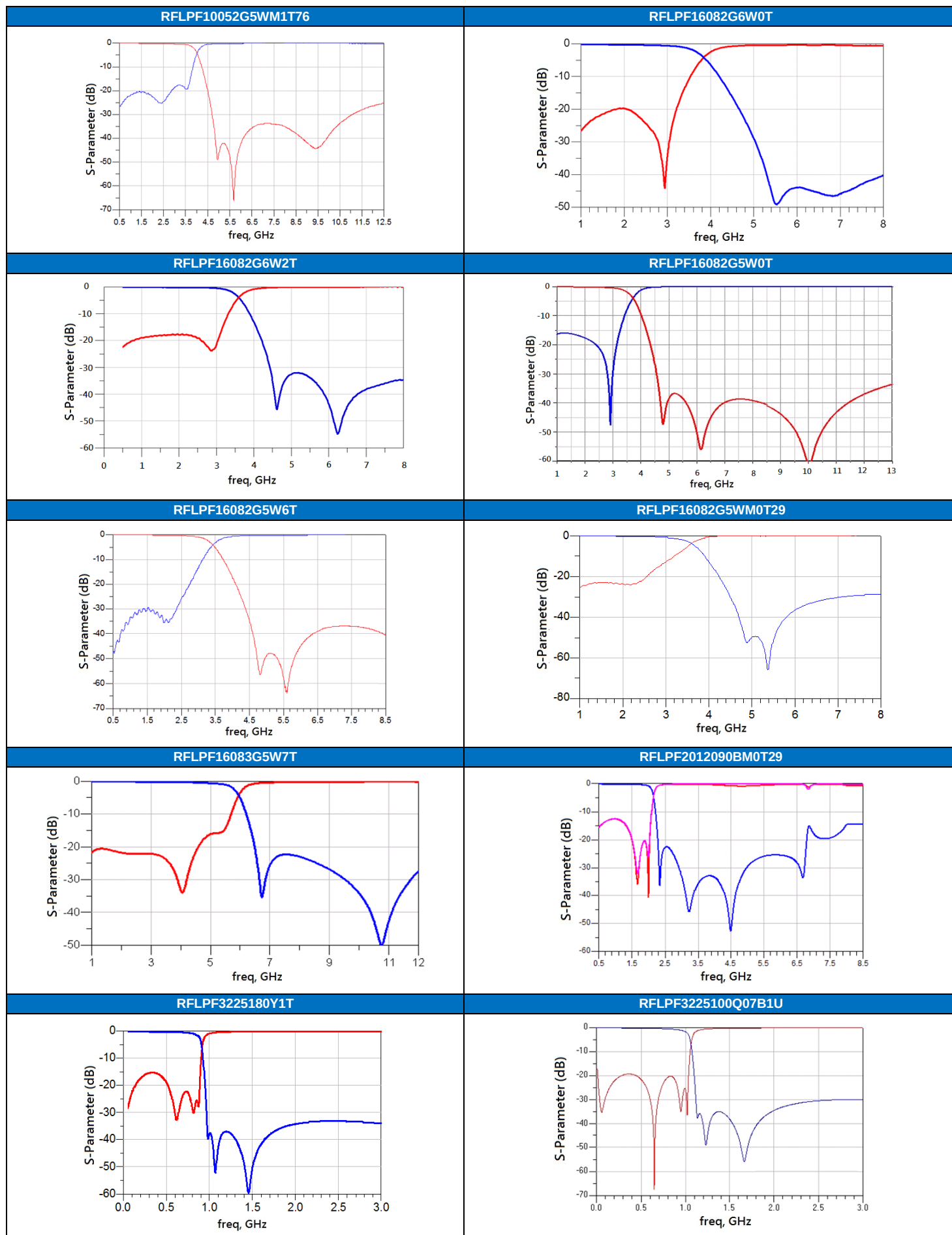
TYPICAL ELECTRICAL CHARACTERISTICS



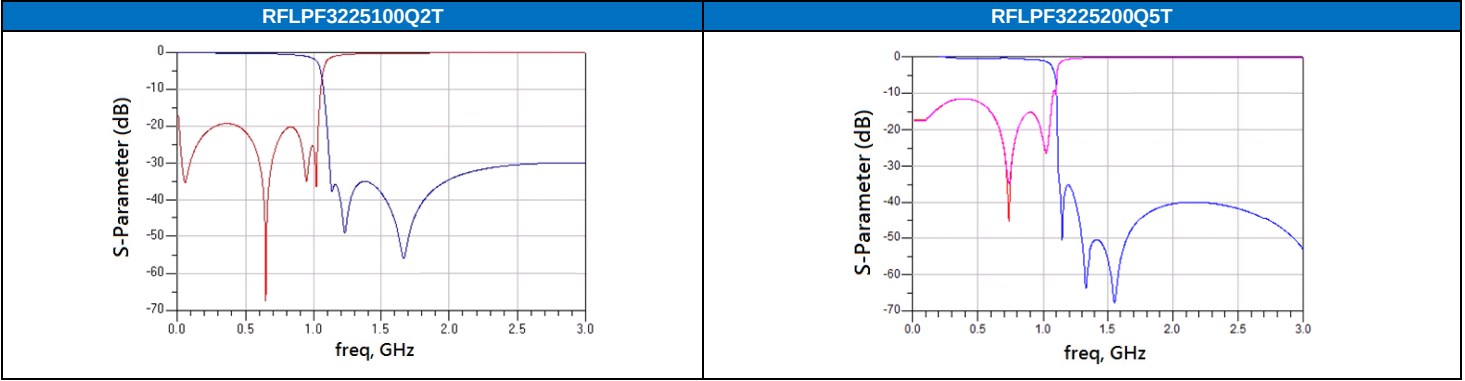


# HIGH FREQUENCY MULTILAYER LOW PASS FILTER

## TYPICAL ELECTRICAL CHARACTERISTICS



TYPICAL ELECTRICAL CHARACTERISTICS



- For more information, please contact with local sales representative
- All specifications are subject to change without notice



# HIGH FREQUENCY

## MULTILAYER HIGH PASS FILTER

### HIGH FREQUENCY MULTILAYER HIGH PASS FILTER

#### ■ STRUCTURE AND PIN ASSOCIATED

| STRUCTURE A | STRUCTURE B | STRUCTURE C | STRUCTURE D | STRUCTURE E |
|-------------|-------------|-------------|-------------|-------------|
|             |             |             |             |             |

#### ■ STRUCTURE AND DIMENSION

| Structure Dimension | L           | W           | T           | A            | B           | C           | D           | E           | F           |
|---------------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
| A                   | 0.65 ± 0.10 | 0.50 ± 0.10 | 0.4 max.    | 0.225 ± 0.10 | 0.20 ± 0.05 | 0.10 ± 0.10 | 0.20 ± 0.05 | 0.05 ± 0.05 | -           |
| B                   | 1.60 ± 0.15 | 0.80 ± 0.15 | 0.60 ± 0.10 | 0.23 ± 0.05  | 0.40 ± 0.10 | 0.30 ± 0.10 | 0.65 ± 0.10 | 0.20 ± 0.05 | 0.23 ± 0.05 |
| C                   | 2.50 ± 0.20 | 2.00 ± 0.20 | 0.90 ± 0.10 | 0.20 ± 0.20  | 0.55 ± 0.20 | 0.50 ± 0.20 | 0.20 ± 0.20 | 0.20 ± 0.20 | -           |
| D                   | 3.20 ± 0.20 | 2.50 ± 0.20 | 1.7 max.    | 0.95 ± 0.20  | 0.60 ± 0.20 | 0.30 ± 0.15 | 0.70 ± 0.15 | 1.20 ± 0.15 | 2.00 ± 0.15 |
| E                   | 1.60 ± 0.10 | 0.80 ± 0.10 | 0.70 ± 0.10 | 0.73 ± 0.10  | 0.30 ± 0.10 | 0.25 ± 0.10 | 0.40 ± 0.10 | 0.05 ± 0.05 | 0.05 ± 0.05 |

Unit: mm

#### ■ ELECTRICAL SPECIFICATION

##### ISM 2.4/ 5GHz Band Application

| Part Number     | Frequency Range (MHz) | Insertion Loss (dB)                 | Attenuation (dB min. )               | VSWR (max.) | Size (mm)      | Structure |
|-----------------|-----------------------|-------------------------------------|--------------------------------------|-------------|----------------|-----------|
| RFHPF2520090L0T | 2400~2500             | 2.0max.(25°C)<br>2.3max.(-40~+85°C) | 30(869~960 MHz)<br>45(1805~1990 MHz) | 2           | 2.50x2.00x0.90 | C         |
|                 | 5150~5825             | 1.3max.(25°C)<br>1.6max.(-40~+85°C) | 30(869~960 MHz)<br>45(1805~1990 MHz) | 2           |                |           |

##### 2496 ~ 2690 MHz BAND WORKING FREQUENCY

| Part Number     | Frequency Range (MHz) | Insertion Loss (dB)                   | Attenuation (dB min. ) | VSWR (max.) | Size (mm)       | Structure |
|-----------------|-----------------------|---------------------------------------|------------------------|-------------|-----------------|-----------|
| RFHPF16082G5W0T | 2496~2690             | 1.2max.(25°C)<br>1.3max.(-40~+85°C)   | 25(1710~1995MHz)       | 2.0         | 1.6 X 0.8 X 0.6 | B         |
| RFHPF16082G5W6T | 2300~2690             | 1.45max.(25°C)<br>1.65max.(-40~+85°C) | 20(1710~1980MHz)       | 2.0         | 1.6 X 0.8 X 0.7 | E         |

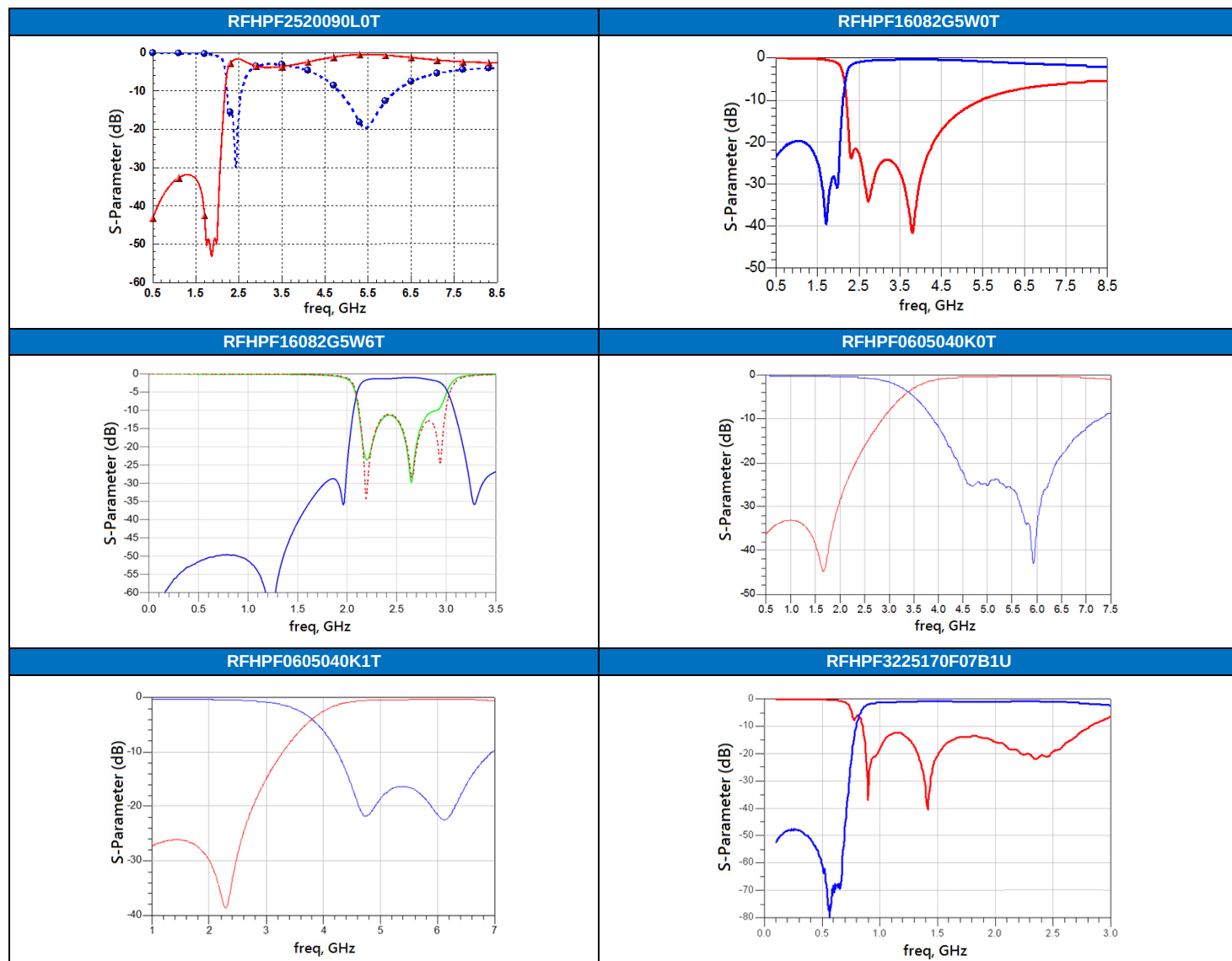
##### 5GHz BAND WORKING FREQUENCY

| Part Number     | Frequency Range (MHz) | Insertion Loss (dB)                   | Attenuation (dB min. ) | VSWR (max.) | Size (mm)        | Structure |
|-----------------|-----------------------|---------------------------------------|------------------------|-------------|------------------|-----------|
| RFHPF0605040K0T | 4900~5840             | 0.60max.(25°C)<br>0.65max.(-40~+85°C) | 14(2400~2500MHz)       | 1.6         | 0.65 X 0.5 X 0.4 | A         |
| RFHPF0605040K1T | 4900~5850             | 0.65                                  | 20(2450~2500MHz)       | 2.0         | 0.65 X 0.5 X 0.4 | A         |

##### MoCA Application

| Part Number        | Frequency Range (MHz) | Insertion Loss (dB)                  | Attenuation (dB min. ) | VSWR (max.) | Size (mm)       | Structure |
|--------------------|-----------------------|--------------------------------------|------------------------|-------------|-----------------|-----------|
| RFHPF3225170F07B1U | 950~2150              | 2.00max.(25°C)<br>2.2max.(-40~+85°C) | 50(475~675MHz)         | 2.0         | 3.2 X 2.5 X 1.7 | DC        |

## ■ TYPICAL ELECTRICAL CHARACTERISTICS



- For more information, please contact with local sales representative
- All specifications are subject to change without notice