PSA 華科事業群
PASSIVE SYSTEM ALLIANCE

Walsin Technology Corporation

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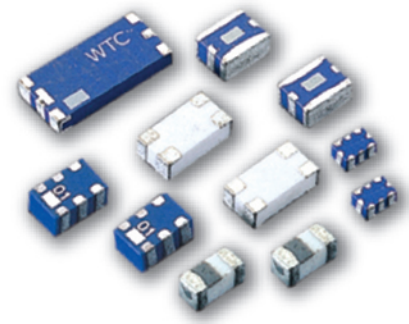
# RF Devices and Customer made Antenna

## Product catalog

www.passivecomponent.com



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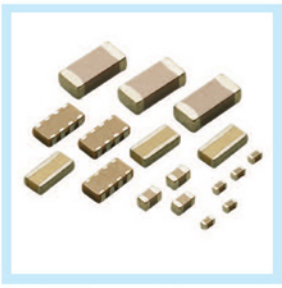
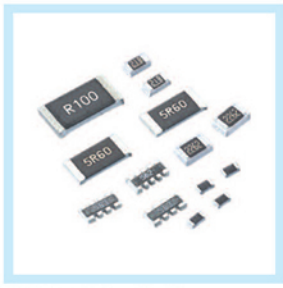
# Product Portfolio



**Multilayer Ceramic Capacitors (MLCC)**

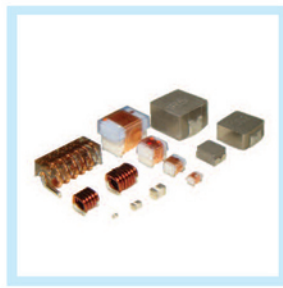



**Chip-Resistor**

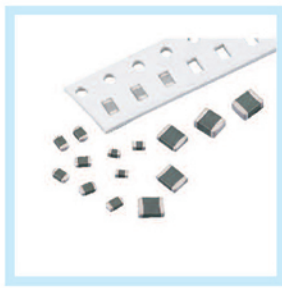
**Disc Capacitors**

**RF Device and High Frequency Inductors**

**Antenna**



**Inductors**



**Varistors and SMD-Varistors**

## IEC-63 Nominal Resistance / Capacitance

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E1 | 100 | | | | | | | | | | | | | | | | | | | | | | | |
| E3 | 100 | | | | | | | 220 | | | | | | | | | 470 | | | | | | | |
| E6 | 100 | | | | 150 | | | | 220 | | | | 330 | | | | 470 | | | | 680 | | | |
| E12 | 100 | | 120 | | 150 | | 180 | | 220 | | 270 | | 330 | | 390 | | 470 | | 560 | | 680 | | 820 | |
| E24 | 100 | 110 | 120 | 130 | 150 | 160 | 180 | 200 | 220 | 240 | 270 | 300 | 330 | 360 | 390 | 430 | 470 | 510 | 560 | 620 | 680 | 750 | 820 | 910 |
| E96 | 100 | 102 | 121 | 124 | 147 | 150 | 178 | 182 | 215 | 221 | 261 | 267 | 316 | 324 | 383 | 392 | 464 | 475 | 562 | 576 | 681 | 698 | 825 | 845 |
| | 105 | 107 | 127 | 130 | 154 | 158 | 187 | 191 | 226 | 232 | 274 | 280 | 332 | 340 | 402 | 412 | 487 | 499 | 590 | 604 | 715 | 732 | 866 | 887 |
| | 110 | 113 | 133 | 137 | 162 | 165 | 196 | 200 | 237 | 243 | 287 | 294 | 348 | 357 | 422 | 432 | 511 | 523 | 619 | 634 | 750 | 768 | 909 | 931 |
| | 115 | 118 | 140 | 143 | 169 | 174 | 205 | 210 | 249 | 255 | 301 | 309 | 365 | 374 | 442 | 453 | 536 | 549 | 649 | 665 | 787 | 806 | 953 | 976 |

E6: $\sqrt[6]{10} \fallingdotseq 1.46$ E12: $\sqrt[12]{10} \fallingdotseq 1.21$
E1 series resistance: 1Ω, 10Ω, 100Ω, 1000Ω, 10000Ω, 100000Ω

"Vector Graphics by VectorOpenStock.com"

# ORDERING CODE

## ■ CHIP ANTENNA

| RF | ANT | 321612 | 0 | A | 5 | T |
|---|---|---|---|---|---|---|
| **Type code** | **Product code** | **Dimension code** | **Unit of dimension** | **Application** | **Specification** | **Packing** |
| RF/RG: device | ANT : Antenna<br>FRA : Free Antenna<br>ECA : SMD Antenna | Per 2 digits of Length, Width, Thickness<br>321612 =<br>Length =32<br>Width = 16<br>Thickness = 12 | 0 : 0.1 mm<br>1 : 1.0 mm | A: 2.4GHz ISM Band<br>E : GPS 1.5GHz<br>L : 2.4/5.2/5.8GHz Tri Band<br>W : WiMAX | Code from 0~9 dependent on different electrical specification | T: 7" Reeled<br>G: 13" Reeled |

## ■ HIGH FREQUENCY MULTILAYER BAND PASS FILTER

| RF | BPF | 322515 | 0 | A | 4 | T |
|---|---|---|---|---|---|---|
| **Type code** | **Product code** | **Dimension code** | **Unit of dimension** | **Application** | **Specification** | **Packing** |
| RF device | BPF : Band Pass Filter | Per 2 digits of Length, Width, Thickness<br>322515 =<br>Length =32<br>Width = 25<br>Thickness = 15 | 0 : 0.1 mm<br>1 : 1.0 mm | A : 2.4GHz ISM Band<br>W : WiMAX<br>K : ISM 5.2/5.8 Dual Band | Code from 0~9 dependent on different electrical specification | T: 7" Reeled<br>G: 13" Reeled |

## ■ HIGH FREQUENCY MULTILAYER BALANCED FILTER

| RF | BPB | 252009 | 0 | A | 7 | T |
|---|---|---|---|---|---|---|
| **Type code** | **Product code** | **Dimension code** | **Unit of dimension** | **Application** | **Specification** | **Packing** |
| RF/RG: device | BPB : Balanced Type Band Pass Filter | Per 2 digits of Length, Width, Thickness<br>252009 =<br>Length =25<br>Width = 20<br>Thickness = 09 | 0 : 0.1 mm<br>1 : 1.0 mm | A : 2.4GHz ISM Band<br>W : WiMAX | Code from 0~9 dependent on different electrical specification | T: 7" Reeled<br>G: 13" Reeled |

## ■ HIGH FREQUENCY MULTILAYER LOW PASS FILTER

| RF | LPF | 201211 | 0 | A | 0 | T |
|---|---|---|---|---|---|---|
| **Type code** | **Product code** | **Dimension code** | **Unit of dimension** | **Application** | **Specification** | **Packing** |
| RF device | LPF : Low Pass Filter | Per 2 digits of Length, Width, Thickness<br>201210 =<br>Length =20<br>Width = 12<br>Thickness = 11 | 0 : 0.1 mm<br>1 : 1.0 mm | A : 2.4GHz ISM Band<br>K : ISM 5.2/5.8 Dual Band | Code from 0~9 dependent on different electrical specification | T: 7" Reeled<br>G: 13" Reeled |

## ■ HIGH FREQUENCY MULTILAYER HIGH PASS FILTER

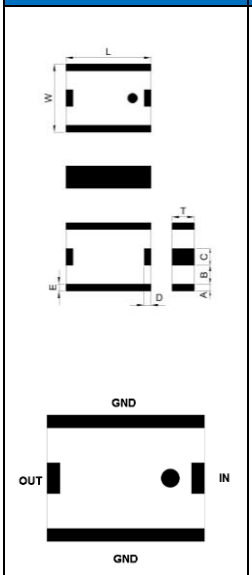
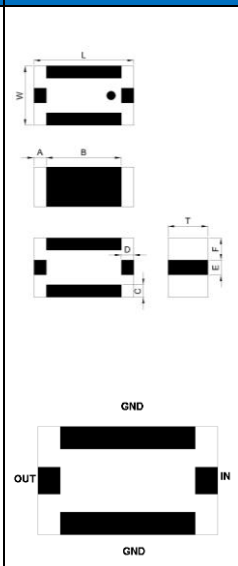
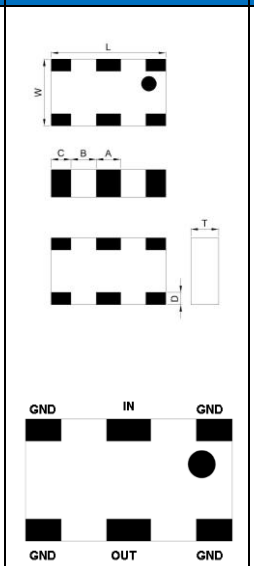
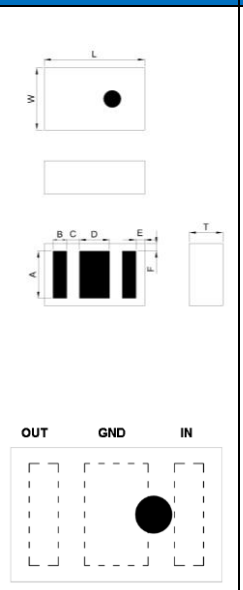
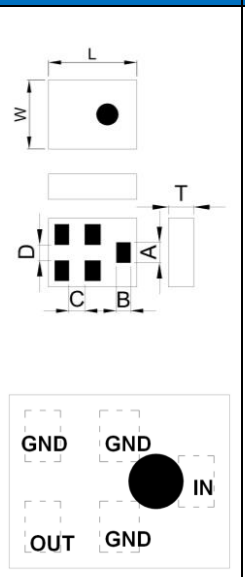
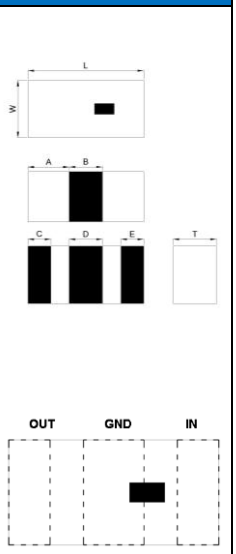
| RF | HPF | 252009 | 0 | L | 0 | T |
|---|---|---|---|---|---|---|
| **Type code** | **Product code** | **Dimension code** | **Unit of dimension** | **Application** | **Specification** | **Packing** |
| RF device | HPF : High Pass Filter | Per 2 digits of Length, Width, Thickness<br>252009 =<br>Length =2.5<br>Width = 2.0<br>Thickness = 0.9 | 0 : 0.1 mm<br>1 : 1.0 mm | L : 2.4/4.9/5.2/5.8GHz Multiband Application | Code from 0~9 dependent on different electrical specification | T: 7" Reeled<br>G: 13" Reeled |

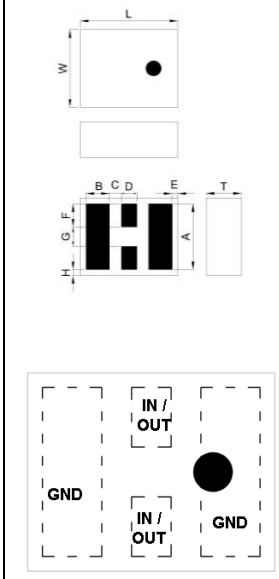
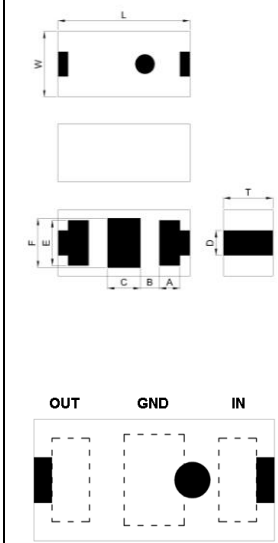
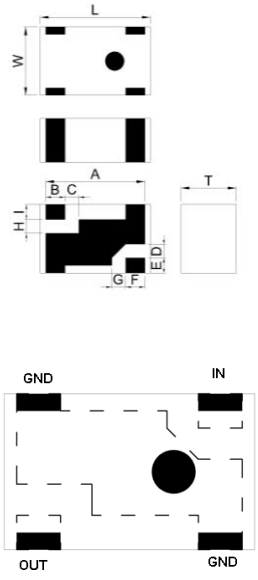
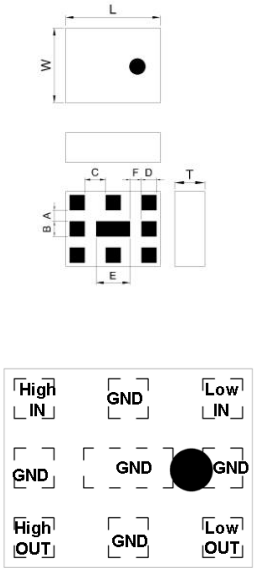
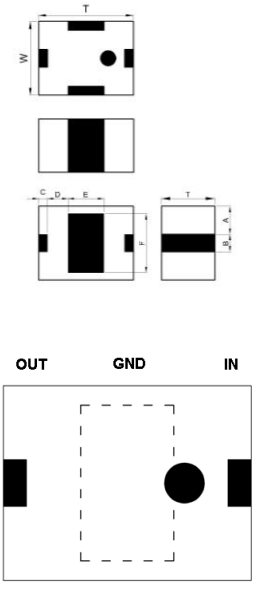
## ■ BALUN TRANSFORMERS

| RF | BLN | 201208 | 0 | A | 4 | T |
|---|---|---|---|---|---|---|
| **Type code** | **Product code** | **Dimension code** | **Unit of dimension** | **Application** | **Specification** | **Packing** |
| RF/RG: device | BLN : BALUN | Per 2 digits of Length, Width, Thickness<br>201208 =<br>Length =20<br>Width = 12<br>Thickness = 08 | 0 : 0.1 mm<br>1 : 1.0 mm | A : 2.4GHz ISM Band<br>K : ISM 5.2/5.8 Dual Band | Code from 0~9 dependent on different electrical specification | T: 7" Reeled<br>G: 13" Reeled |

# HIGH FREQUENCY MULTILAYER BAND PASS FILTER

## ■ STRUCTURE AND PIN ASSOCIATED

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

| STRUCTURE G | STRUCTURE H | STRUCTURE I | STRUCTURE J | STRUCTURE K |
|---|---|---|---|---|
|  |  |  |  |  |

## ■ STRUCTURE AND DIMENSION

Unit: mm

| Structure\ 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 | - | - | - | - |
| | | | 0.80±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 | 0.50±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 | 0.40±0.20 | 0.60±0.20 | 0.70±0.20 | 0.20±0.15 | 0.40±0.20 | - | - | - | - |
| B | 1.00±0.10 | 0.50±0.10 | 0.40±0.10 | 0.30±0.10 | 0.30±0.10 | 0.35±0.10 | 0.15±0.10 | 0.15±0.10 | - | - | - | - |
| | 1.60±0.15 | 0.80±0.15 | 0.50±0.10 | 0.35±0.10 | 0.30±0.10 | 0.15±0.10 | 0.15±0.10 | 0.30±0.10 | - | - | - | - |
| | | | 0.60±0.10 | 0.45±0.15 | 0.45±0.15 | 0.20±0.15 | 0.20±0.15 | 0.30±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 | - | - | - | - |
| | | | | 0.45±0.15 | 0.70±0.15 | 0.15±0.10 | 0.15±0.10 | 0.30±0.15 | - | - | - | - |
| | 2.00±.15 | 1.20±015 | 0.50±0.10 | 0.40±0.15 | 0.80±0.15 | 0.20±0.10 | 0.20±0.10 | 0.30±0.15 | - | - | - | - |
| | | | 0.90±0.10 | 0.45±0.15 | 1.10±0.15 | 0.25±0.15 | 0.25±0.15 | 0.30±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 | 0.45±0.15 | 1.10±0.15 | 0.25±0.15 | 0.25±0.15 | 0.30±0.15 | - | - | - | - |
| | | | | 0.45±0.15 | 0.70±0.15 | 0.20±0.15 | 0.20±0.15 | 0.30±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 | - | - | - | - |
| | | | 0.90±0.10 | 0.50±0.15 | 1.00±0.15 | 0.25±0.15 | 0.25±0.15 | 0.30±0.15 | - | - | - | - |
| | | | 0.95±0.10 | 0.35±0.15 | 1.30±0.15 | 0.25±0.15 | 0.25±0.15 | 0.30±0.15 | - | - | - | - |
| | | | | 0.50±0.15 | 1.00±0.15 | 0.25±0.15 | 0.25±0.15 | 0.30±0.15 | - | - | - | - |
| C | 2.00±.15 | 1.20±0.20 | 0.55±0.10 | 0.40±0.20 | 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 | 0.40±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±.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±0.15 | 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 | 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 | 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 | - | - | - |

## ■ 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(824~960 MHz)<br>20(1710~1910 MHz)<br>20(4800~5000 MHz)<br>15(7200~7500 MHz) | 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>20(7200~7500 MHz) | 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(3600 MHz)<br>35(4800~5000 MHz)<br>35(7200~7500 MHz) | 2.0 | 50 | 1.10x 0.90x0.60 | E |
| RFBPF1411060A1T | 2.4~2.5 | 1.8 | 40(824~960MHz)<br>40(1545~1605MHz)<br>20(1710~1990MHz)<br>8(2110~2170MHz)<br>35(3600 MHz)<br>35(4800~5000 MHz)<br>35(7200~7500 MHz) | 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(4800~5000 MHz)<br>30(7200~7500 MHz) | 2.0 | 50 | 1.40x1.10x0.60 | E |
| RBBPF1411060A3T | 2.4~2.5 | 1.1 | 20( 50~960MHz)<br>10( 1710~1990MHz)<br>9( 3600 MHz)<br>22( 4800~7200 MHz) | 2.0 | 50 | 1.40x1.10x0.60 | E |
| RFBPF1608060AA7M1U | 2.4~2.5 | 0.95max.(25℃)<br>1.25max.(-40~+85℃) | 20(500~960 MHz)<br>23(3200 MHz)<br>30(4800~5000 MHz)<br>32(7200~7500 MHz) | 2.0 | 50 | 1.60x0.80x0.60 | H |
| RFBPF1608060ADT | 2.4~2.5 | 1.8max.(25℃)<br>2.1max.(-40~+85℃) | 22.5(200~1300MHz)<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(880 MHz)<br>20(3200 MHz)<br>35(4800~5000 MHz)<br>25(7200~7500 MHz) | 2.0 | 50 | 1.60x0.80x0.60 | F |
| RFBPF1608070AFT | 2.4~2.5 | 2.4max.(25℃)<br>2.7max.(-40~+85℃) | 24.5(80~960MHz)<br>20(1710~1990 MHz)<br>8.5(2170 MHz)<br>15(4800~5000 MHz)<br>20(7200~7500 MHz) | 2.0 | 50 | 1.60x0.80x0.70 | B |
| RFBPF1608070AWT | 2.4~2.5 | 2.0max.(25℃)<br>2.2max.(-40~+85℃) | 30 (960 MHz)<br>25(1910 MHz)<br>20(1990 MHz)<br>25(4800 MHz)<br>15(7200 MHz) | 2.0 | 50 | 1.60x0.80x0.70 | B |
| RFBPF1608050A0T | 2.4~2.5 | 2.0max.(25℃)<br>2.2max.(-40~+85℃) | 20(960 MHz)<br>20(1910 MHz)<br>15(1990 MHz)<br>18(4800 MHz)<br>25(7200 MHz) | 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 |
| RFBPF1608070A3T | 2.4~2.5 | 1.8max.(25℃)<br>2.1max.(-40~+85℃) | 27(800~900 MHz)<br>25(4800~5000 MHz)<br>30(7200~7500 MHz) | 2.0 | 50 | 1.60x0.80x0.70 | B |

## 2.4GHz BAND WORKING FREQUENCY

| Part Number | Frequency Range(GHz) | Insertion Loss (dB) | Attenuation ( dB min. ) | VSWR (max.) | Impedance (Ω) | Size(mm) | STRUCTURE |
|---|---|---|---|---|---|---|---|
| RFBPF2012080AM0T62 | 2.4~2.5 | 1.8max.(25℃)<br>2.0max.(-40~+85℃) | 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. | 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℃)<br>1.1max.(-40~+85℃) | 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℃)<br>1.8max.(-40~+85℃) | 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℃)<br>1.7max.(-40~+85℃) | 30(860~960MHz)<br>30(1545~1605MHz)<br>30(1710~1990MHz)<br>30(2170MHz)(typical)<br>30(4800~5000MHz) | 2.0 | 50 | 2.00x1.25x0.80 | D |
| RFBPF2012080AFT | 2.4~2.5 | 1.8max.(25℃)<br>2.0max.(-40~+85℃) | 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℃)<br>1.2max.(-40~+85℃) | 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>25(7200~7500MHz) | 2.0 | 50 | 2.00x1.20x0.90 | B |
| RFBPF2012100ANT | 2.4~2.5 | 2.3max.(25℃)<br>2.6max.(-40~+85℃) | 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 | 2.3max.(25℃)<br>2.6max.(-40~+85℃) | 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 | 1.3 | 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 |
| RFBPF2012090A1T | 2.4~2.5 | 1.7 | 30(900MHz)<br>20(1850MHz)<br>30(4800MHz) | 2.0 | 50 | 2.00x1.20x0.90 | B |
| RFBPF2012090A2T | 2.4~2.5 | 1.4 | 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℃)<br>2.2max.(-40~+85℃) | 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(2110~2170MHz0<br>15(3300~3800MHz)<br>35(4800~5000MHz)<br>20(7200~7450.5MHz) | 2.0 | 50 | 2.00x1.25x0.45 | D |
| 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 |
| 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 |

## 2.4GHz BAND WORKING FREQUENCY

| Part Number | Frequency Range(GHz) | Insertion Loss (dB) | Attenuation ( dB min. ) | VSWR (max.) | Impedance (Ω) | Size(mm) | STRUCTURE |
|---|---|---|---|---|---|---|---|
| RFBPF2520090ACT | 2.4~2.5 | 2.1max.(25℃)<br>2.3max.(-40~+85℃) | 43(806~960MHz)<br>43(1570~1580 MHz)<br>43(1710~1990 MHz)<br>20(2110~2170MHz)<br>30(4800~5000 MHz)<br>25(7200~7500MHz) | 2.0 | 50 | 2.50x2.00x0.90 | G |
| RFBPF2520070AMT | 2.4~2.5 | 2.0max.(25℃)<br>2.2max.(-40~+85℃) | 45(824~960 MHz)<br>45(1570~1580 MHz)<br>45(1710~1785 MHz)<br>40(1805~1850 MHz)<br>35(1850~1910 MHz)<br>35(1920~1990 MHz)<br>25(2110~2170 MHz)<br>5(2750~3000 MHz)<br>15(3000~4800 MHz)<br>30(4800~5000 MHz)<br>30(5150~5850 MHz)<br>20(7200~7500 MHz) | 2.0 | 50 | 2.50x2.00x0.70 | A |
| RFBPF2520080AUT | 2.4~2.5 | 2.2 | 30(900 MHz)<br>30(1850 MHz)<br>33(2170 MHz)<br>35(4800 MHz)<br>25(7200 MHz) | 2.0 | 50 | 2.50x2.00x0.80 | A |
| RFBPF2520120A1T | 2.4~2.5 | 1.7 | 30(900/1850 MHz)<br>20(2100 MHz)<br>40(4800 MHz)<br>25(7200 MHz) | 2.0 | 50 | 2.50x2.00x1.20 | A |
| RFBPF2520120A2T | 2.4~2.5 | 2.1 | 30(900/1850 MHz)<br>30(4800 MHz) | 2.0 | 50 | 2.50x2.00x1.20 | A |
| RFBPF2520120A3T | 2.4~2.5 | ≦1.2(25℃) | 30(900/1850 MHz)<br>25(4800 MHz) | 2.0 | 50 | 2.50x2.00x1.20 | A |
| RFBPF2520120A4T | 2.4~2.5 | ≦1.7(25℃) | 30(900/1850 MHz)<br>25(4800 MHz) | 2.0 | 50 | 2.50x2.00x1.20 | A |
| RFBPF2520100A5T | 2.4~2.5 | 2.0 | 40(900 MHz)<br>35(3200 MHz)<br>30(1990 MHz)<br>20(2100 MHz)<br>40(4800 MHz)<br>25(7200 MHz) | 2.0 | 50 | 2.50x2.00x1.00 | 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(1500 MHz)<br>30(2100 MHz)<br>30(4800 MHz) | 1.7 | - | 3.20x2.50x1.50 | A |
| RFBPF3225150A4T | 2.4~2.5 | 2.0 | 30(900 MHz)<br>30(1850 MHz)<br>20(2100 MHz)<br>30(4800 MHz) | 2.0 | 50 | 3.20x2.50x1.50 | A |
| RFBPF3225150A5T | 2.4~2.5 | 1.8 | 30(900 MHz)<br>30(1850MHz)<br>20(2100 MHz)<br>30(4800 MHz) | 2.0 | 50 | 3.20x2.50x1.50 | A |

## 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. | 30(824~849 MHz)<br>30(880~915 MHz)<br>22(1850~1910 MHz)<br>22(1920~1980 MHz)<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℃)<br>0.75max.(-40~+85℃) | 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℃)<br>1.2max.(-40~+85℃) | 25(900~1015MHz)<br>15(2400~2500MHz)<br>15(3610~3980MHz)<br>20(4905~5845MHz) | 2.0 | | | |

## 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℃)<br>1.7max.(-40~+85℃) | 33(100~2170 MHz)<br>29(2170~2500 MHz)<br>32(9800~12000 MHz) | 2.0 | 50 | 1.60x0.80x0.70 | B |
| RFBPF1608060K68Q1C | 4.9~5.9 | 1.3 | 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 |
| RFBPF1608060K78D1T | 5.15~5.95 | 0.8 | 40(30~2700MHz)<br>45(3400~3800MHz)<br>20(7250~7800MHz)<br>20(10300~11700MHz) | 1.67 | 50 | 1.60x0.80x0.60 | D |
| RFBPF1608060K88Q1C | 5.15~5.95 | 0.7<br>(typ.0.6) | 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(3450 MHz)<br>20(11000 MHz) | 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(3450 MHz)<br>20(11000 MHz) | 2.0 | 50 | 2.00x1.20x1.00 | B |
| RFBPF2012100K1T | 5.15~5.9 | 3.0<br>(typ.2.5) | 35(4000MHz)<br>35(4500MHz)<br>40(4600MHz) | 2.0 | 50 | 2.00x1.20x1.00 | B |
| RFBPF2012090K5T | 4.9~5.85 | 2.2 | 35(340~1195 MHz)<br>19(2140~3580 MHz)<br>25(6855~7150 MHz)<br>20(8570~8930 MHz) | 2.0 | 50 | 2.00x1.20x0.90 | B |
| RFBPF2012100K3T | 4.9~5.85 | 1.8max.(25℃)<br>2.1max.(-40~+85℃) | 30(500 MHz)<br>35(3450 MHz)<br>30(4000 MHz)<br>20(4200 MHz)<br>15(9800 MHz)<br>15(11700 MHz) | 2.0 | 50 | 2.00x1.20x0.95 | B |
| RFBPF2012100K6T | 5.15~5.85 | 1.6max.(25℃)<br>1.8max.(-40~+85℃) | 30(500 MHz)<br>40(2000 MHz)<br>35(3450 MHz)<br>30(4000 MHz)<br>20(4200 MHz) | 2.0 | 50 | 2.00x1.20x0.95 | B |
| RFBPF2012090K9T | 5.725~5.85 | 2.0 | 30(500 MHz)<br>30(4000 MHz)<br>20(4200 MHz)<br>32(5000 MHz)<br>15(9800 MHz)<br>15(11750 MHz) | 2.0 | 50 | 2.00x1.20x0.95 | B |
| RFBPF2520090K1T | 4.9~5.85 | 1.2 | 47(824 MHz)<br>47(1500 MHz)<br>47(1910 MHz)<br>15(9800 MHz) | 2.0 | 50 | 2.50x2.00x0.90 | 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(880~915 MHz)<br>29(1710~1785 MHz)<br>21(1850~1910 MHz)<br>15(1920~1980 MHz)<br>18(4600~4780 MHz)<br>23(6900~7170 MHz) | 2.0 | 50 | 1.60x0.80x0.70 | B |

## MoCA / Docsis Application

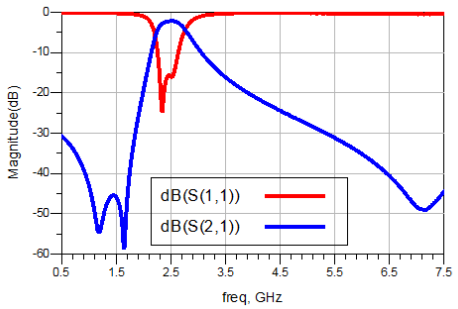
| Part Number | Frequency Range(MHz) | Insertion Loss (dB) | Attenuation ( dB min. ) | VSWR (max.) | Impedance (Ω) | Size(mm) | STRUCTURE |
|---|---|---|---|---|---|---|---|
| RFBPF3225180Y1T | 975~1025 | 3.0 | 30(54~870 MHz)<br>30(1125~1675 MHz)<br>30(2300 MHz) | 2.0 | 75 | 3.20x2.50x1.80 | K |
| RFBPF3225200Y07B1U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

## LTE Band Application

| Part Number | Frequency Range(MHz) | Band | Insertion Loss (dB) | Attenuation ( dB min. ) | VSWR (max.) | Impedance (Ω) | Size(mm) | STRUCTURE |
|---|---|---|---|---|---|---|---|---|
| RFBPF1109B101T | 2110~2170 | B1 | 1.7 | 25(4280MHz) | 2 | 50 | 1.10x0.90x0.60 | E |
| RFBPF1109B201T | 1930~1990 | B2 | 1.7 | 25(3920MHz) | 2 | 50 | 1.10x0.90x0.60 | E |
| RFBPF1109B301T | 1805~1880 | B3 | 1.4 | 25(3685MHz) | 2 | 50 | 1.10x0.90x0.60 | E |
| RFBPF1109B501T | 869~894 | B5 | 0.9 | 12(1763MHz) | 2 | 50 | 1.10x0.90x0.60 | E |
| RFBPF1109B701T | 2620~2690 | B7 | 1.2 | 25(5310MHz) | 2 | 50 | 1.10x0.90x0.60 | E |
| RFBPF1109B801T | 925~960 | B8 | 0.9 | 12(1885MHz) | 2 | 50 | 1.10x0.90x0.60 | E |

## ■ TYPICAL ELECTRICAL CHARACTERISTICS

**RFBPF1005040A1T**

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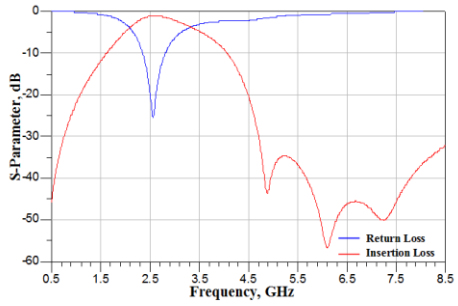


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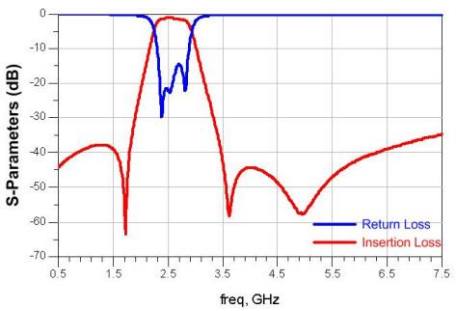


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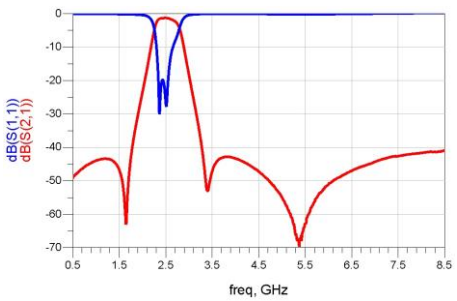

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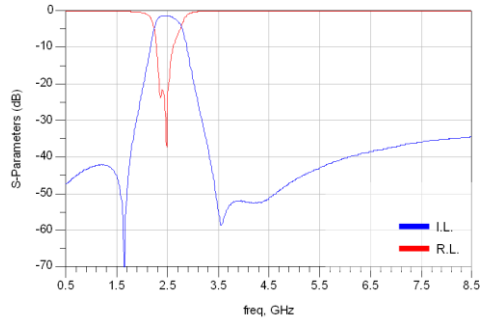


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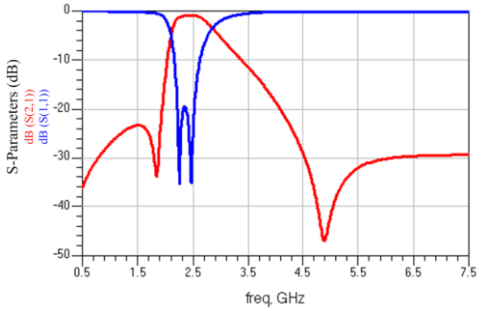


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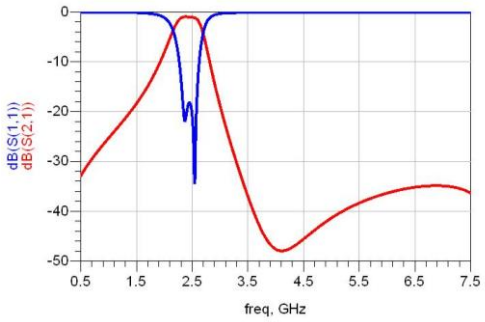


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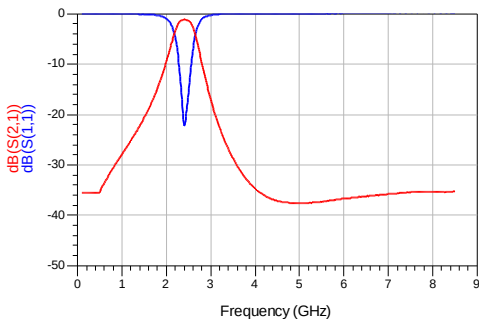


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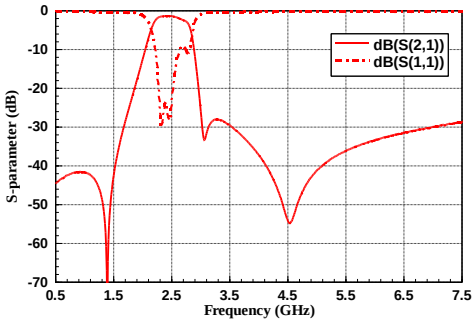


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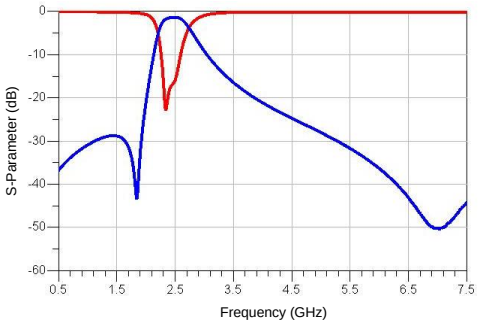


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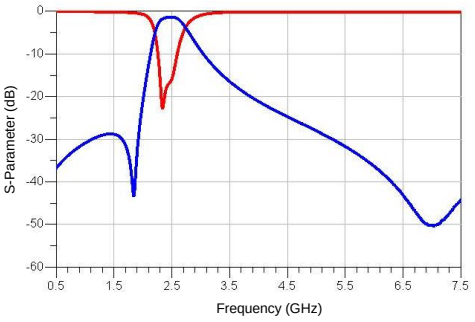


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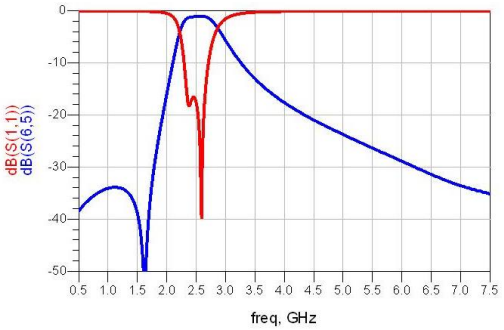


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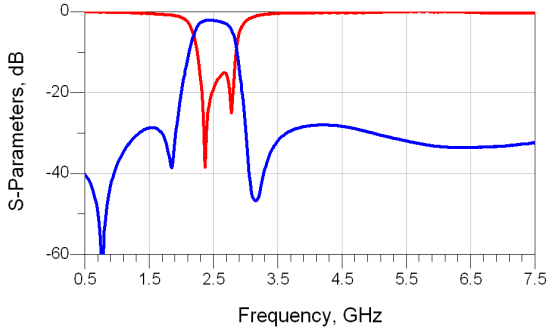


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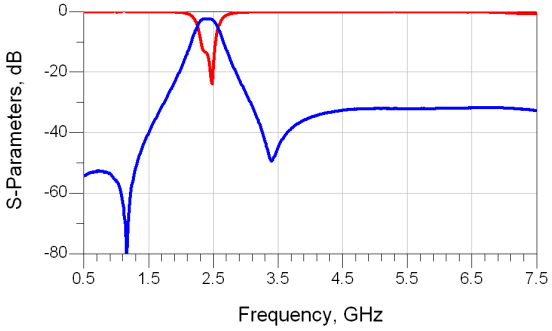

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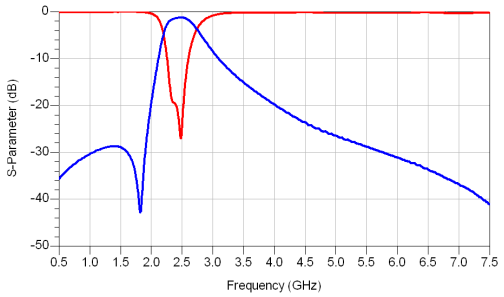


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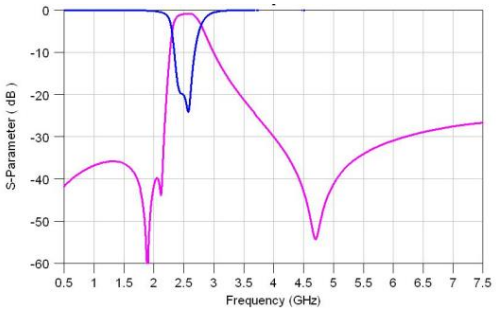


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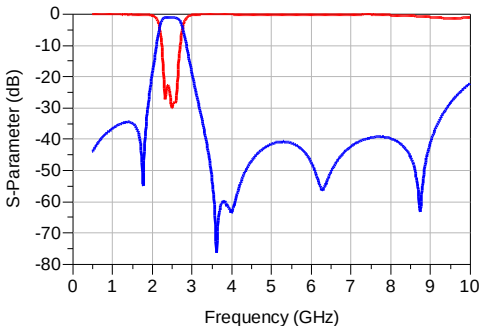


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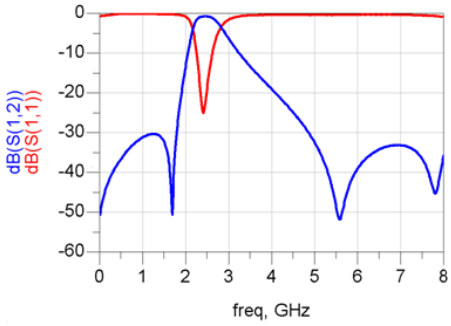


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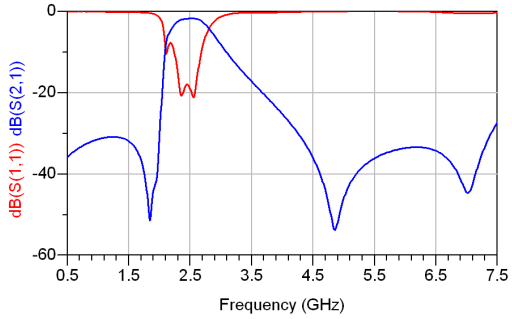


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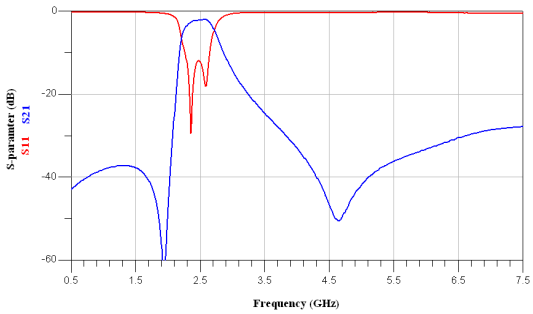


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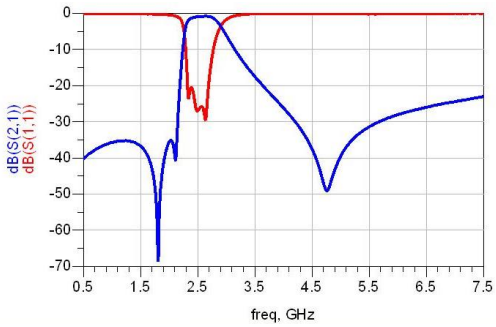


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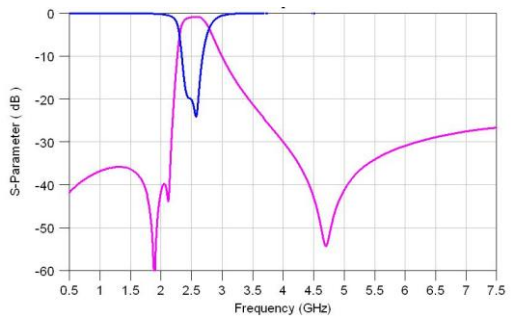


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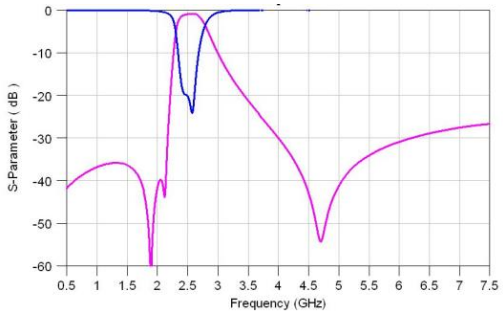


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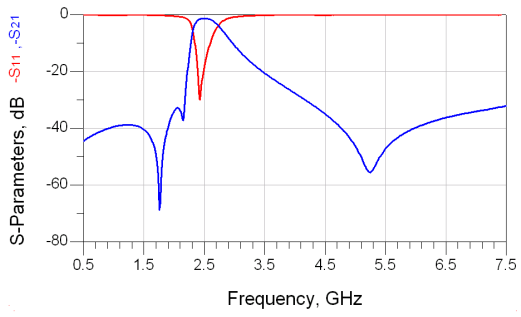

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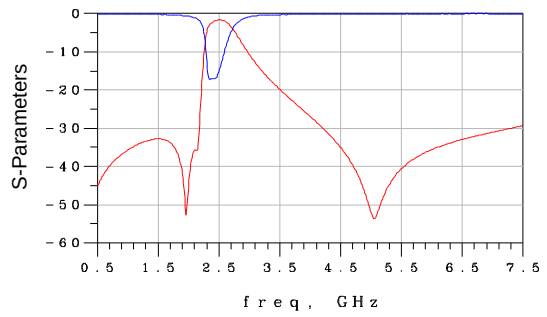


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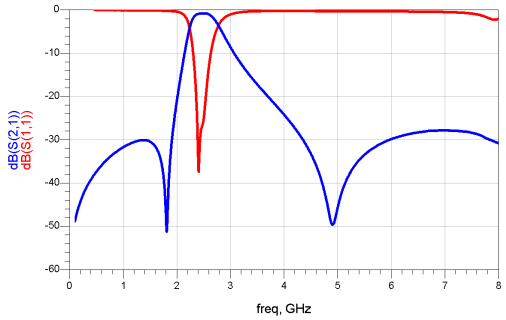


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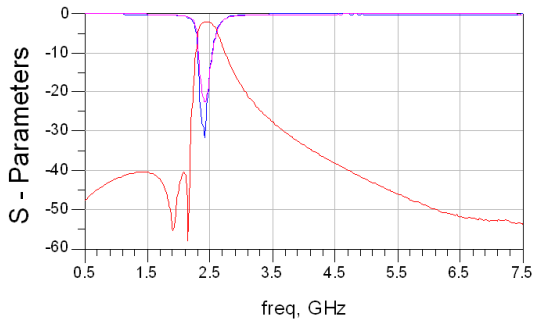


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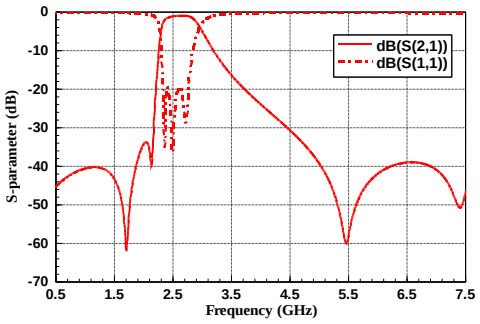


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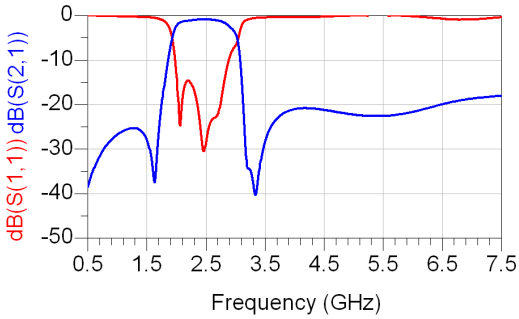


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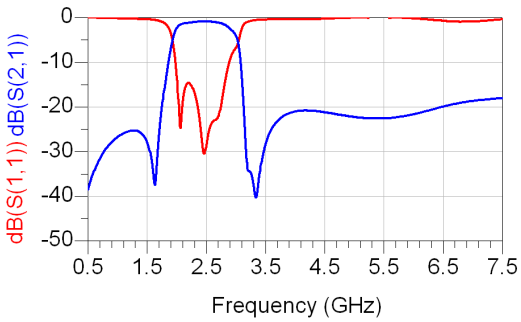


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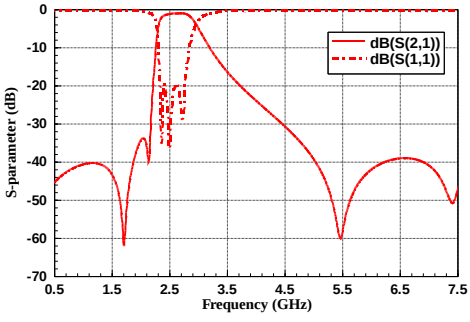


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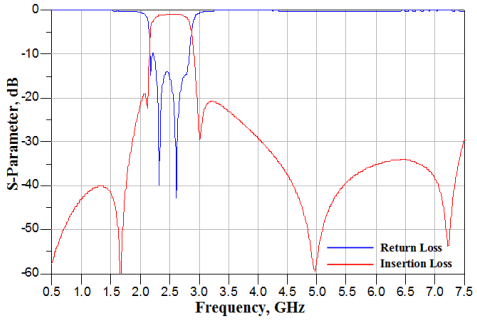


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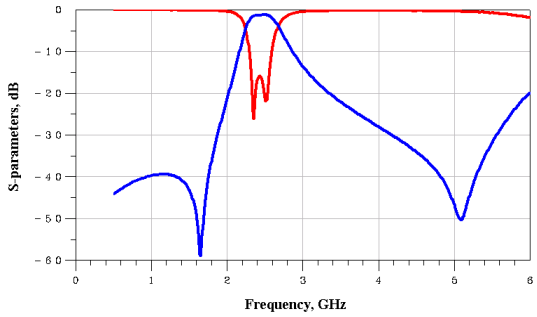


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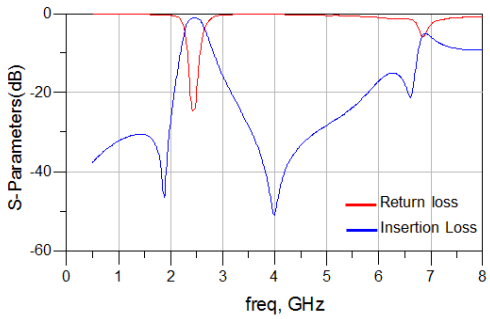

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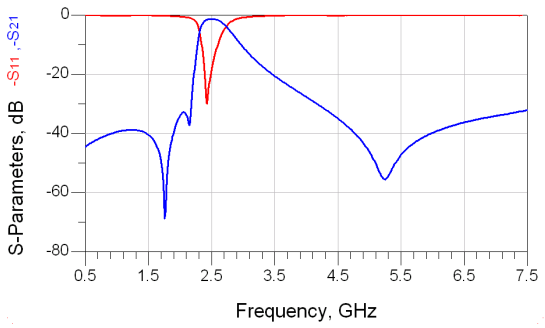


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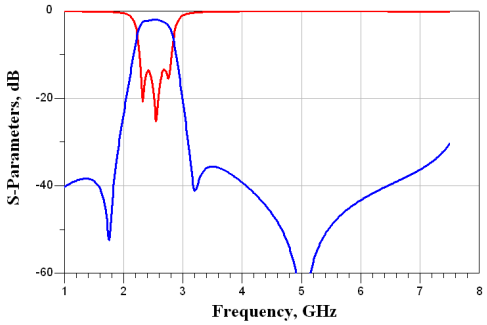


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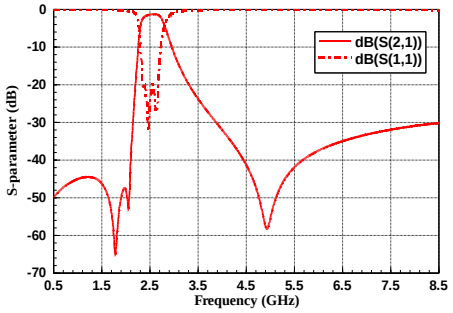


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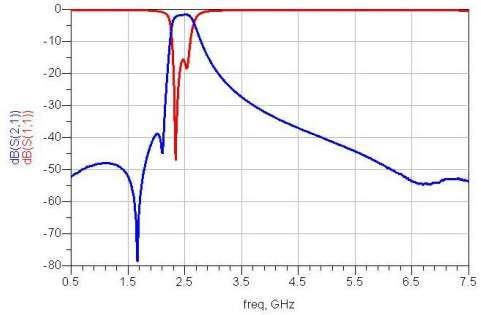


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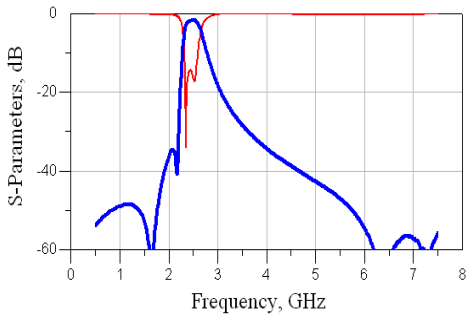


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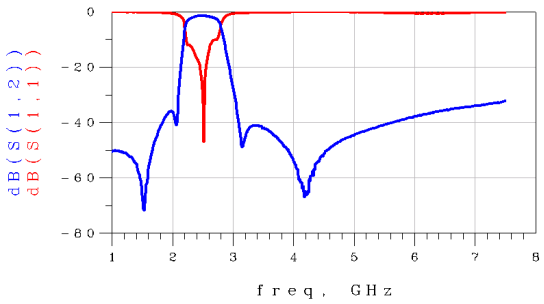


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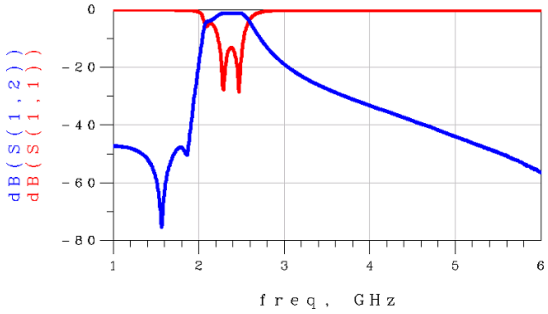


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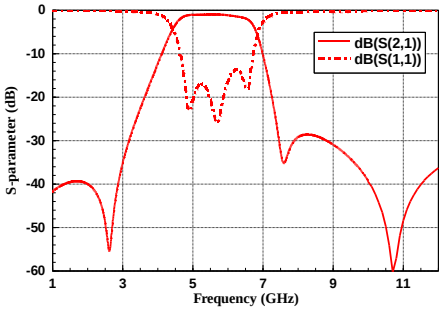


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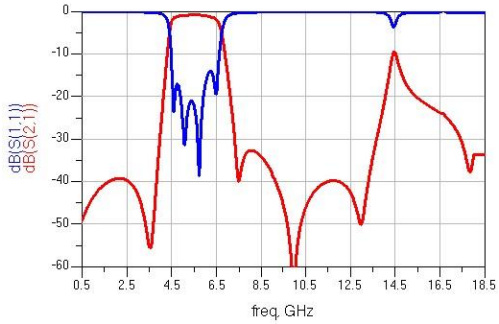


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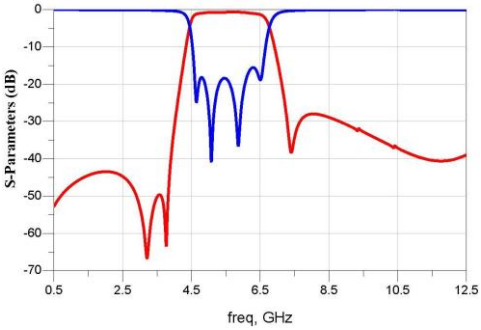

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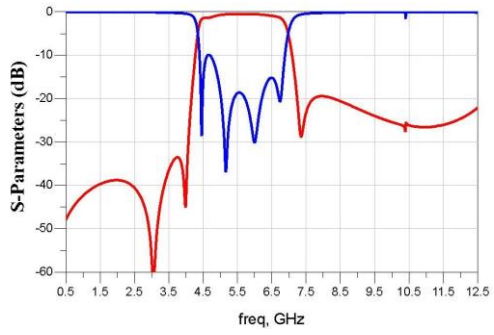
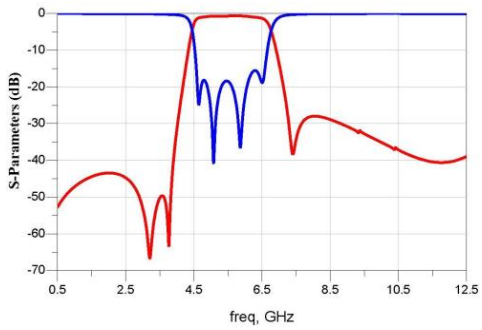
|  |  |
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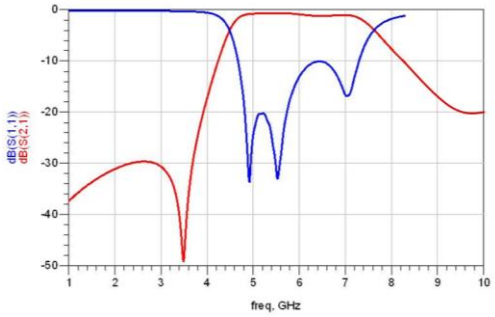
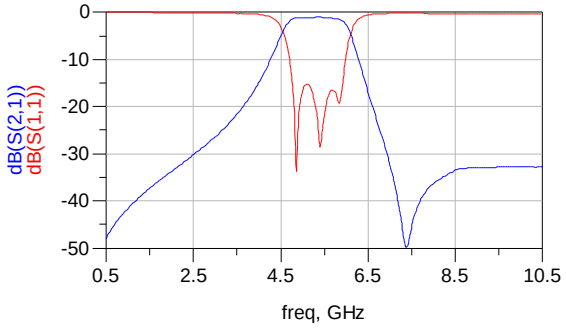
|  |  |
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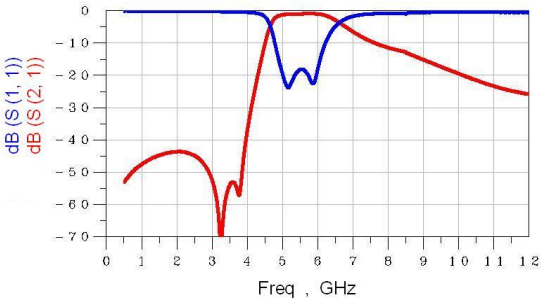
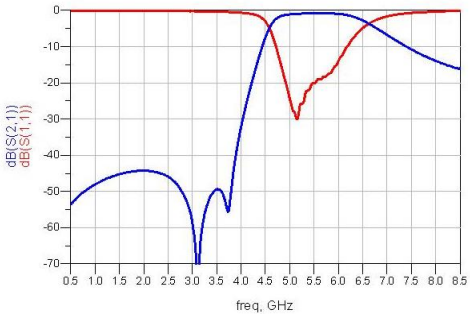
|  |  |
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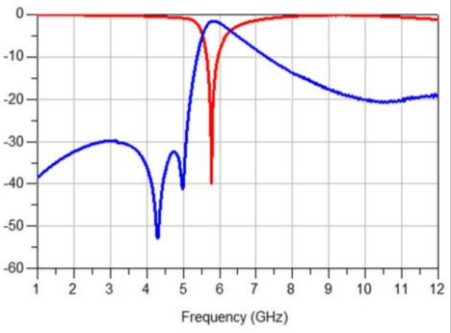
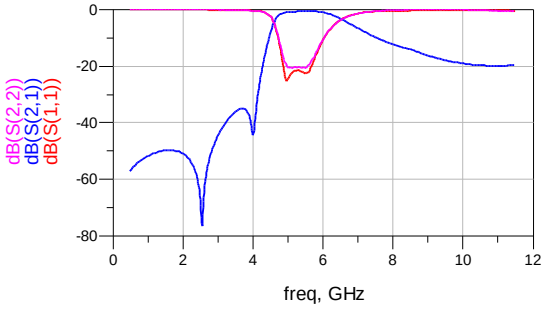
|  |  |
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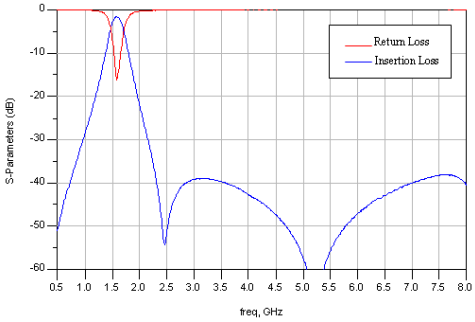
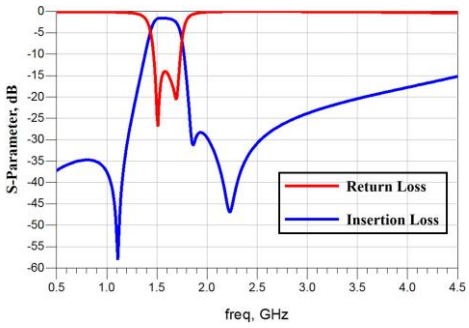
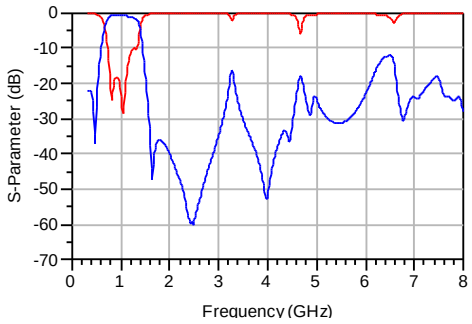
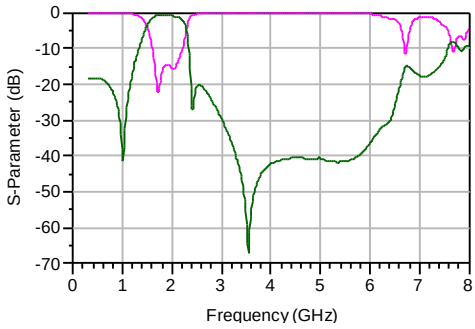
|  |  |

## RFBPF2520090B08Q1C

| Low Band | High Band |
|---|---|
|  |  |



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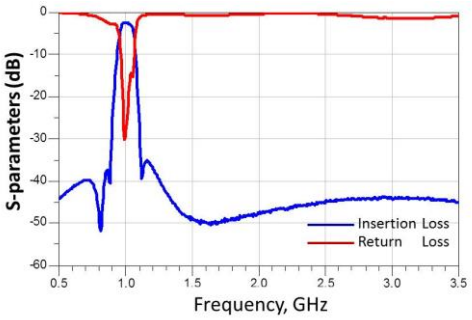



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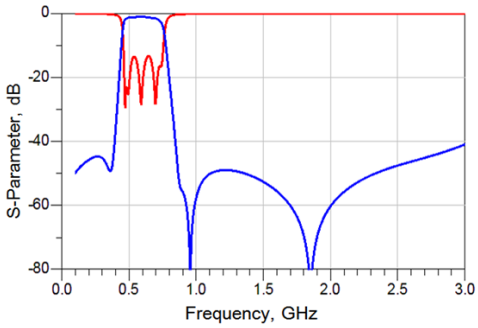
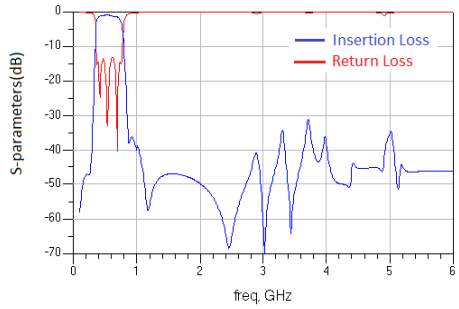




## RBBPF3225180Y27B1U





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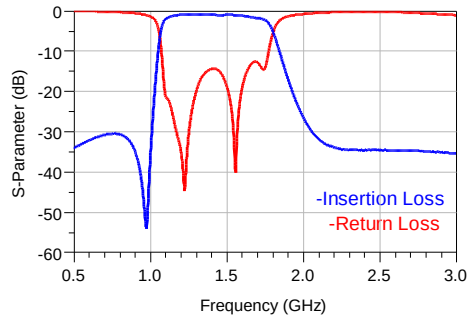
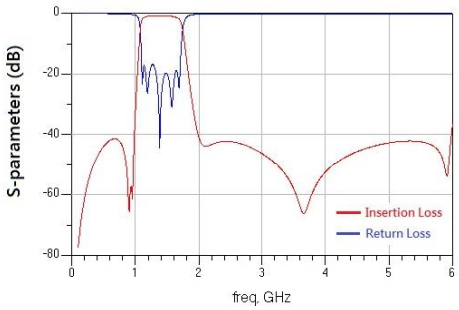




## RBBPF3225180C67B1U





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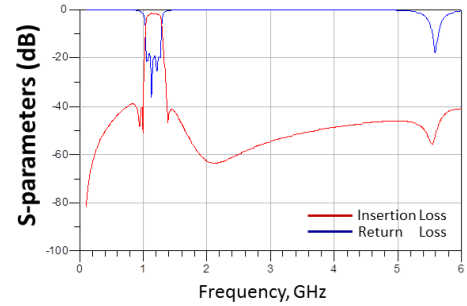
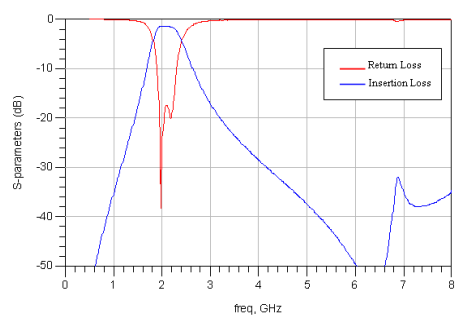


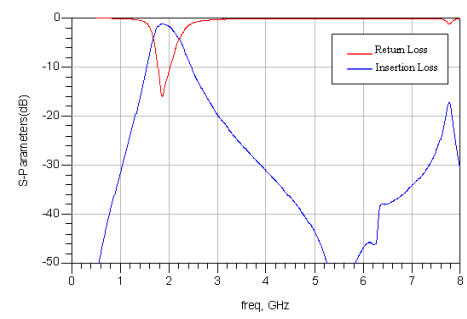


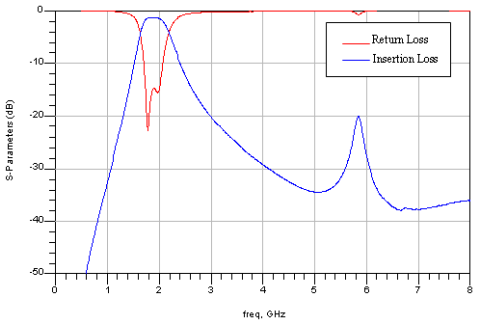
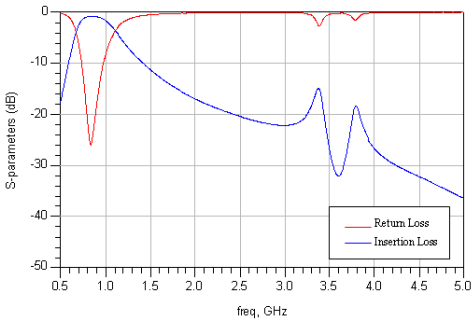
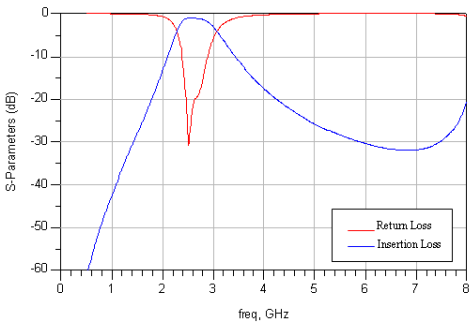
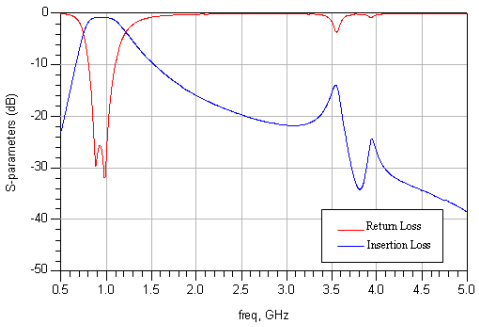
## RFBPF1109B101T





## RFBPF1109B201T



| RFBPF1109B301T | RFBPF1109B501T |
|---|---|
|  |  |
| **RFBPF1109B701T** | **RFBPF1109B801T** |
|  |  |

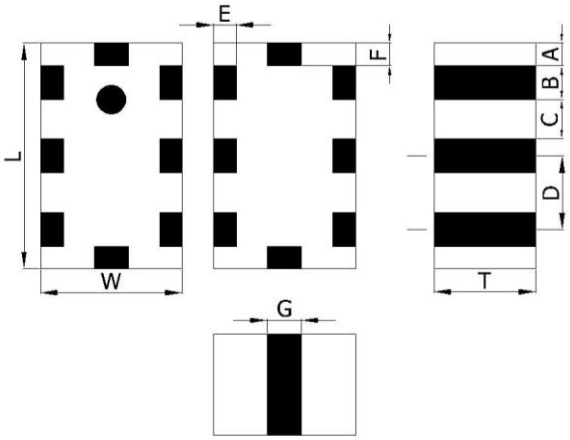


- **For more information, please contact with local sales representative**
- **All specifications are subject to change without notice**

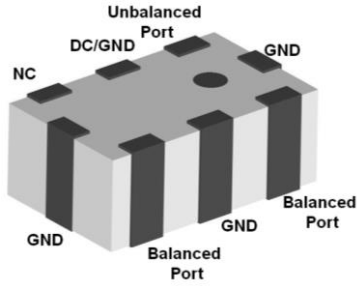
# HIGH FREQUENCY MULTILAYER BALANCED FILTER

## ■ STRUCTURE AND PIN ASSOCIATED

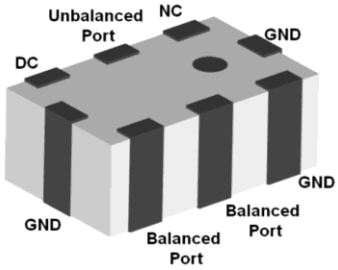
**STRUCTURE A**



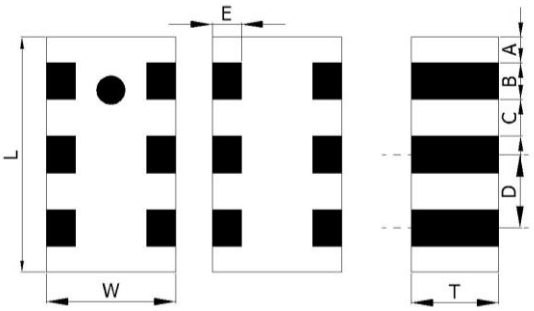

**STRUCTURE A-1**

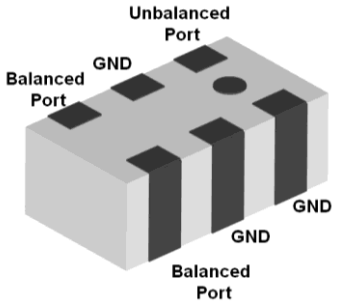



**STRUCTURE A-2**




**STRUCTURE B**




## ■ STRUCTURE AND DIMENSION

Unit: mm

| Structure\ 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 |
| | | | | | | | 0.63±0.10 | 0.20±0.15 | 0.20±0.15 | 0.50±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 | 2.00±0.15 | 1.25±0.10 | 0.60±0.10 | 0.20±0.10 | 0.30±0.15 | 0.25±0.15 | 0.65±0.10 | 0.25±0.10 | - | - |

LifeElectronics
Живое партнерство

**ООО «ЛайфЭлектроникс»** **“LifeElectronics” LLC**

*ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703*

*Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.*

*С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров*

*Мы предлагаем:*

- *Конкурентоспособные цены и скидки постоянным клиентам.*
- *Специальные условия для постоянных клиентов.*
- *Подбор аналогов.*
- *Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.*

- *Приемлемые сроки поставки, возможна ускоренная поставка.*
- *Доставку товара в любую точку России и стран СНГ.*
- *Комплексную поставку.*
- *Работу по проектам и поставку образцов.*
- *Формирование склада под заказчика.*

- *Сертификаты соответствия на поставляемую продукцию (по желанию клиента).*
- *Тестирование поставляемой продукции.*
- *Поставку компонентов, требующих военную и космическую приемку.*
- *Входной контроль качества.*
- *Наличие сертификата ISO.*

*В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.*

*Конструкторский отдел помогает осуществить:*

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- *Техническую поддержку проекта.*
- *Защиту от снятия компонента с производства.*
- *Оценку стоимости проекта по компонентам.*
- *Изготовление тестовой платы монтаж и пусконаладочные работы.*

*Тел: +7 (812) 336 43 04 (многоканальный)*
*Email: org@lifeelectronics.ru*

***www.lifeelectronics.ru***