

TDK RF Products for Wireless LAN

02/01/05

for 2.4GHz

Multilayer Band Pass Filter

| Start Freq. MHz | Stop Freq. MHz | Ins. Loss dB (MAX) | Atenuation (MIN.) | | | | Size mm (typ.) | Part No. | | |
|--------------------|-------------------|-----------------------|-------------------|----|------|----|-------------------|----------|-------------|------------------------------------|
| | | | MHz | dB | MHz | dB | | | | |
| 2400 | 2500 | 1.2 | 915 | 35 | 1785 | 35 | 4800 | 30 | 2.5x2.0x1.0 | DEA252400BT-2027A1 |
| 2300 | 2500 | 1.4 | 915 | 35 | 1910 | 35 | 4800 | 30 | 2.5x2.0x1.0 | DEA252450BT-2030A1 |
| 2400 | 2500 | 1.5 | 915 | 35 | 2100 | 20 | 4800 | 23 | 2.5x2.0x1.0 | DEA252450BT-2031A1 |
| 2400 | 2500 | 2.1 | 915 | 45 | 2170 | 20 | 4800 | 30 | 2.5x2.0x1.0 | DEA252450BT-2024C1 |
| 2400 | 2500 | 3.0 | 1990 | 24 | 2170 | 14 | 4800 | 25 | 2.5x2.0x1.3 | DEA252450BT-2037C1 |
| 2400 | 2500 | 1.5 | 1300 | 22 | 3600 | 30 | 4800 | 38 | 2.0x1.2x1.0 | DEA202450BT-1213B1 |
| 2400 | 2500 | 2.3 | 1250 | 30 | 2100 | 10 | 4800 | 25 | 2.0x1.2x1.0 | DEA202450BT-1195A1 |
| 2400 | 2500 | 3.0 | 1250 | 30 | 1900 | 20 | 4800 | 25 | 2.0x1.2x1.0 | DEA162450BT-1210A1 |

Block Band Pass Filter

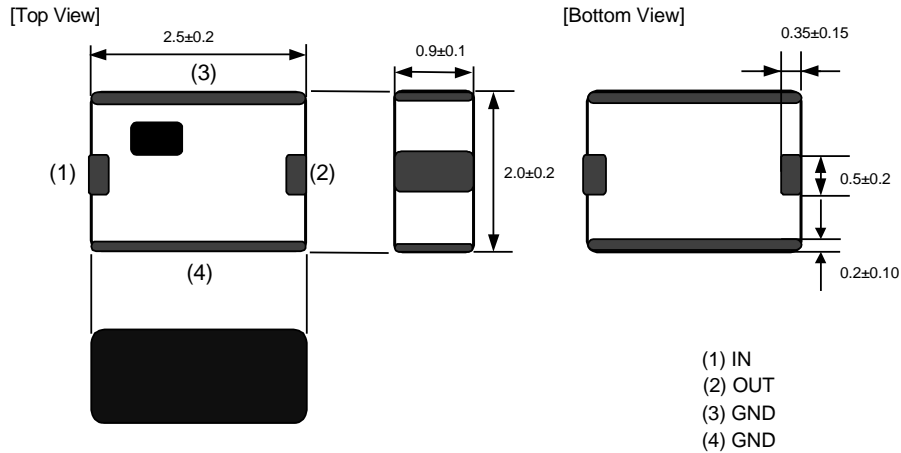
| Start Freq. MHz | Stop Freq. MHz | Ins. Loss dB (MAX) | Atenuation (MIN.) | | | | Size mm (typ.) | Part No. | | |
|--------------------|-------------------|-----------------------|-------------------|----|------|----|-------------------|----------|-------------|---------------------------|
| | | | MHz | dB | MHz | dB | | | | |
| 2400 | 2500 | 1.0 | 960 | 45 | 2170 | 20 | 3200 | 20 | 3.6x3.0x1.6 | CF61A5901 |

| | |
|--|------------------|
| | Sample Available |
| | New Lineup |
| | Under Developing |

MULTILAYER BANDPASS FILTER SPECIFICATION

P/N: **DEA252450BT-2027A1**

[MECHANICAL DIMENSIONS]



Unit: mm

[ELECTRICAL CHARACTERISTICS] $T_a = 25$ degree C

| No. | PARAMETER | FREQ (MHz) | SPECIFICATION | | UNIT |
|-----|----------------|------------|---------------|------|------|
| | | | Min. | Max. | |
| 1 | Insertion Loss | 2400-2500 | - | 1.20 | dB |
| 2 | Return Loss | 2400-2500 | 10.0 | - | dB |
| 3 | Attenuation | 880-915 | 35.0 | - | dB |
| 4 | Attenuation | 1710-1785 | 35.0 | - | dB |
| 5 | Attenuation | 1850-1910 | 35.0 | - | dB |
| 6 | Attenuation | 4800-5000 | 30.0 | - | dB |

[TEMPERATURE RANGE]

| | |
|-----------------------|--------------------|
| Storage Temperature | -40 ~ +85 degree C |
| Operation Temperature | -40 ~ +85 degree C |

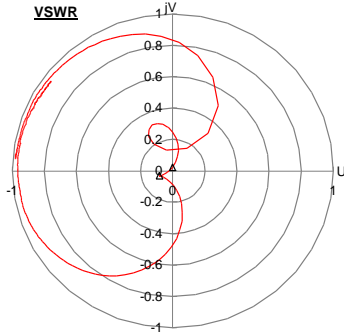
Notes : All the technical data and information contained herein are subject to change without prior notice.

[FREQUENCY CHARACTERISTICS]

DEA252450BT-2027A1

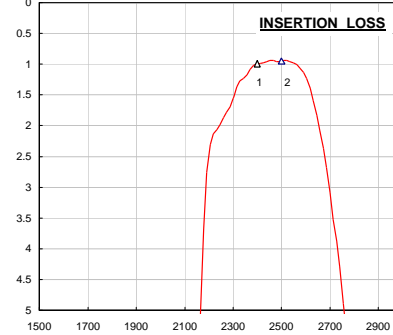
10-Apr-03

S11 POLA REF 1.0 U SCALE 1.0U FS



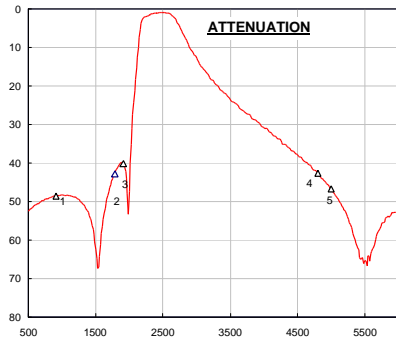
| | | |
|----------|------------|---------|
| MARKER 1 | 2400.0 MHz | 1.04457 |
| MARKER 2 | 2500.0 MHz | 1.19388 |
| MARKER 3 | MHz | dB |
| MARKER 4 | MHz | dB |
| MARKER 5 | MHz | dB |
| MARKER 6 | MHz | dB |

S21 Log MAG REF 0.0dB SCALE 0.5dB/



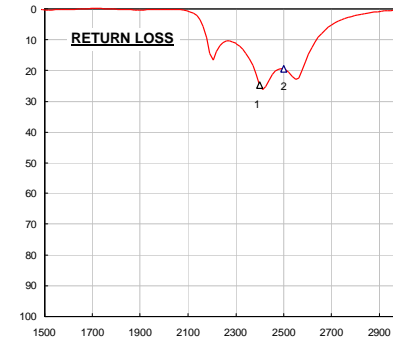
| | | |
|----------|------------|----------|
| MARKER 1 | 2400.0 MHz | 0.994 dB |
| MARKER 2 | 2500.0 MHz | 0.947 dB |
| MARKER 3 | MHz | dB |
| MARKER 4 | MHz | dB |
| MARKER 5 | MHz | dB |
| MARKER 6 | MHz | dB |

S12 Log MAG REF 0.0dB SCALE 10.0dB/



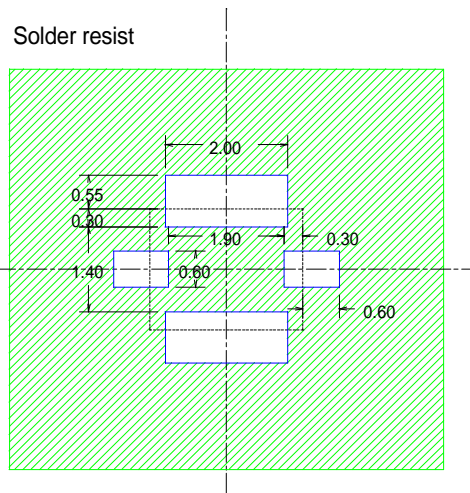
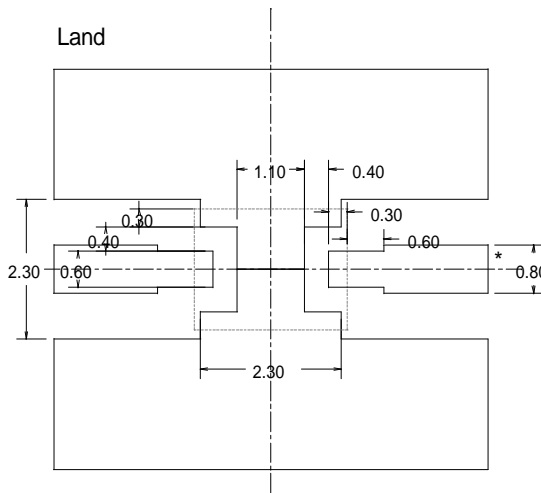
| | | |
|----------|------------|-----------|
| MARKER 1 | 915.0 MHz | 48.604 dB |
| MARKER 2 | 1785.0 MHz | 42.839 dB |
| MARKER 3 | 1910.0 MHz | 40.154 dB |
| MARKER 4 | 4800.0 MHz | 42.742 dB |
| MARKER 5 | 5000.0 MHz | 46.786 dB |
| MARKER 6 | MHz | dB |

S22 Log MAG REF 0.0dB SCALE 10.0dB/



| | | |
|----------|------------|-----------|
| MARKER 1 | 2400.0 MHz | 24.738 dB |
| MARKER 2 | 2500.0 MHz | 19.478 dB |
| MARKER 3 | MHz | dB |
| MARKER 4 | MHz | dB |
| MARKER 5 | MHz | dB |
| MARKER 6 | MHz | dB |

[Recommended PCB Pattern]



* Line width be designed to match 50ohm characteristic impedance, depending on PCB material and thickness.

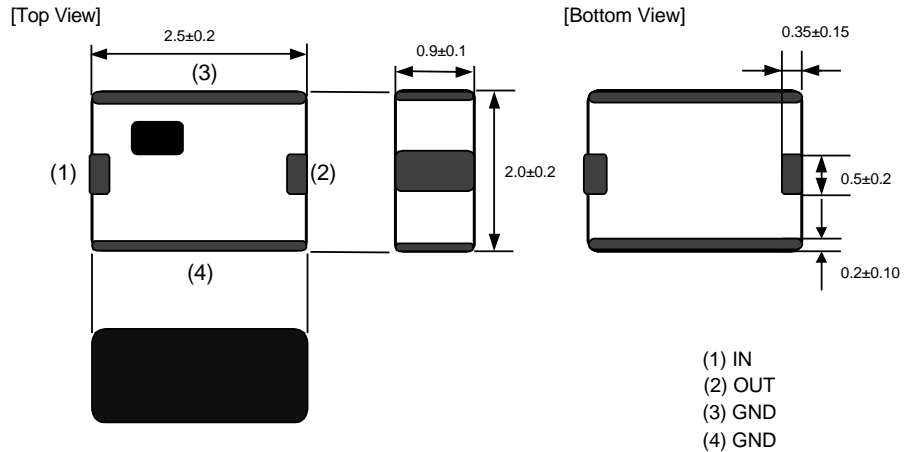
(Unit:mm)

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

MULTILAYER BANDPASS FILTER SPECIFICATION

P/N: **DEA252400BT-2030A1**

[MECHANICAL DIMENSIONS]



Unit: mm

[ELECTRICAL CHARACTERISTICS] $T_a = 25$ degree C

| No. | PARAMETER | FREQ (MHz) | SPECIFICATION | | UNIT |
|-----|----------------|------------|---------------|------|------|
| | | | Min. | Max. | |
| 1 | Insertion Loss | 2300-2500 | - | 1.4 | dB |
| 2 | Return Loss | 2300-2500 | 10.0 | - | dB |
| 3 | Attenuation | 880-915 | 35.0 | - | dB |
| 4 | Attenuation | 1710-1785 | 35.0 | - | dB |
| 5 | Attenuation | 1850-1910 | 35.0 | - | dB |
| 6 | Attenuation | 4800-5000 | 30.0 | - | dB |

[TEMPERATURE RANGE]

| | |
|-----------------------|--------------------|
| Storage Temperature | -40 ~ +85 degree C |
| Operation Temperature | -40 ~ +85 degree C |

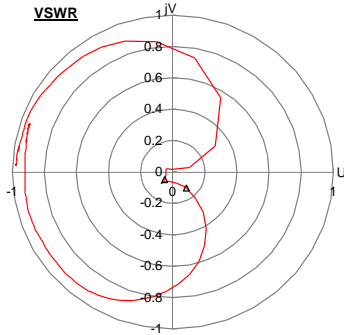
Notes : All the technical data and information contained herein are subject to change without prior notice.

[FREQUENCY CHARACTERISTICS]

DEA252400BT-2030A1

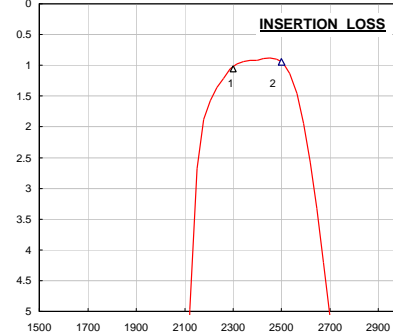
10-Apr-03

S11 POLA REF 1.0 U SCALE 1.0U FS



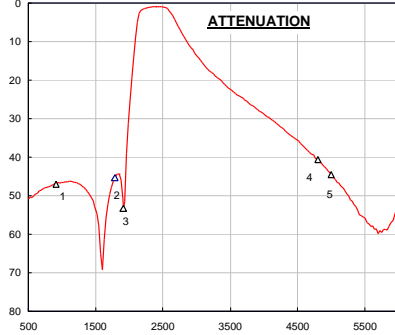
| | | |
|----------|------------|---------|
| MARKER 1 | 2300.0 MHz | 1.15051 |
| MARKER 2 | 2500.0 MHz | 1.30547 |
| MARKER 3 | MHz | |
| MARKER 4 | MHz | |
| MARKER 5 | MHz | |
| MARKER 6 | MHz | |

S21 Log MAG REF 0.0dB SCALE 0.5dB/



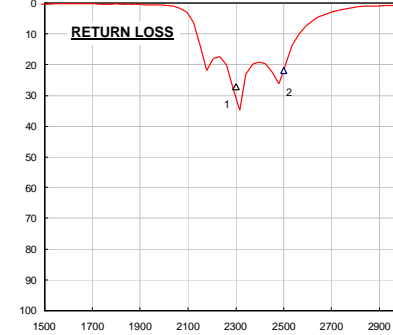
| | | |
|----------|------------|----------|
| MARKER 1 | 2300.0 MHz | 1.058 dB |
| MARKER 2 | 2500.0 MHz | 0.943 dB |
| MARKER 3 | MHz | |
| MARKER 4 | MHz | |
| MARKER 5 | MHz | |
| MARKER 6 | MHz | |

S12 Log MAG REF 0.0dB SCALE 10.0dB/



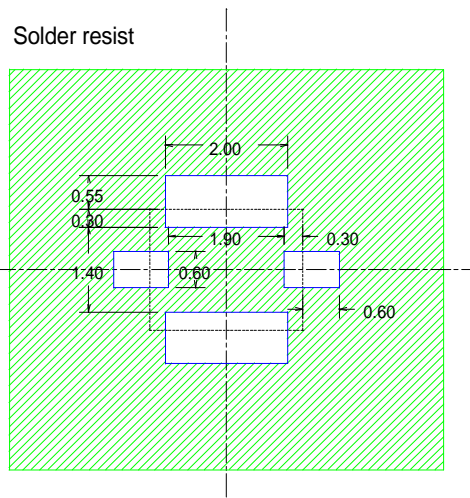
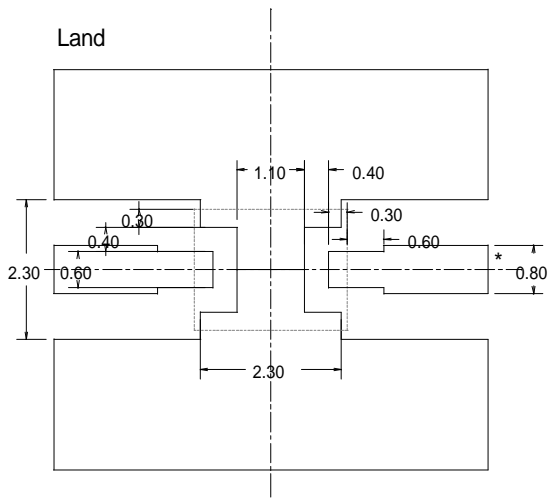
| | | |
|----------|------------|-----------|
| MARKER 1 | 915.0 MHz | 47.006 dB |
| MARKER 2 | 1785.0 MHz | 45.335 dB |
| MARKER 3 | 1910.0 MHz | 53.297 dB |
| MARKER 4 | 4800.0 MHz | 40.660 dB |
| MARKER 5 | 5000.0 MHz | 44.506 dB |
| MARKER 6 | MHz | |

S22 Log MAG REF 0.0dB SCALE 10.0dB/



| | | |
|----------|------------|-----------|
| MARKER 1 | 2300.0 MHz | 27.140 dB |
| MARKER 2 | 2500.0 MHz | 21.893 dB |
| MARKER 3 | MHz | |
| MARKER 4 | MHz | |
| MARKER 5 | MHz | |
| MARKER 6 | MHz | |

[Recommended PCB Pattern]



* Line width be designed to match 50ohm characteristic impedance, depending on PCB material and thickness.

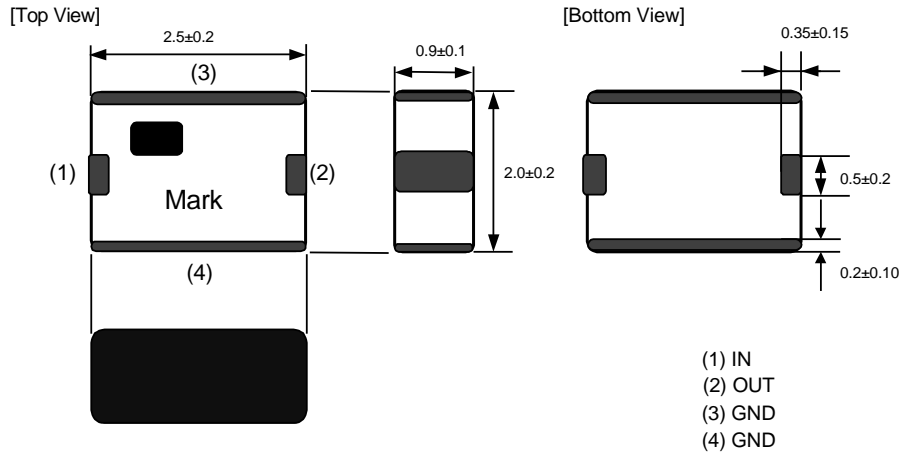
(Unit:mm)

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

MULTILAYER BANDPASS FILTER SPECIFICATION

P/N: **DEA252450BT-2031A1**

[MECHANICAL DIMENSIONS]



Unit: mm

[ELECTRICAL CHARACTERISTICS] $T_a = 25$ degree C

| No. | PARAMETER | FREQ (MHz) | SPECIFICATION | | UNIT |
|-----|----------------|------------|---------------|------|------|
| | | | Min. | Max. | |
| 1 | Insertion Loss | 2400-2500 | - | 1.50 | dB |
| 2 | Return Loss | 2400-2500 | 10.0 | - | dB |
| 3 | Attenuation | 915 | 35.0 | - | dB |
| 4 | Attenuation | 1750 | 30.0 | - | dB |
| 5 | Attenuation | 2100 | 20.0 | - | dB |
| 6 | Attenuation | 4800-5000 | 23.0 | - | dB |

[TEMPERATURE RANGE]

| | |
|-----------------------|--------------------|
| Storage Temperature | -40 ~ +85 degree C |
| Operation Temperature | -40 ~ +85 degree C |

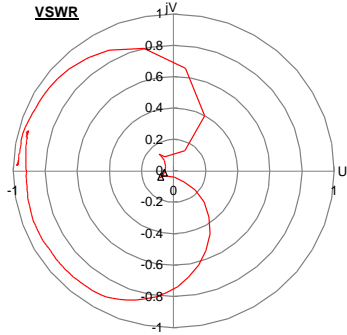
Notes : All the technical data and information contained herein are subject to change without prior notice.

[FREQUENCY CHARACTERISTICS]

DEA252450BT-2031A1

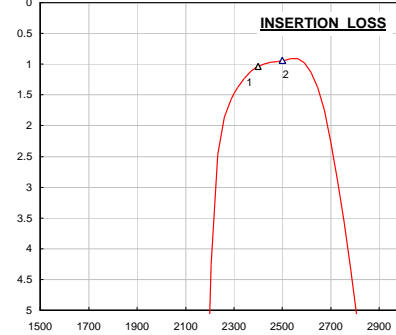
10-Apr-03

S11 POLA REF 1.0 U SCALE 1.0U FS



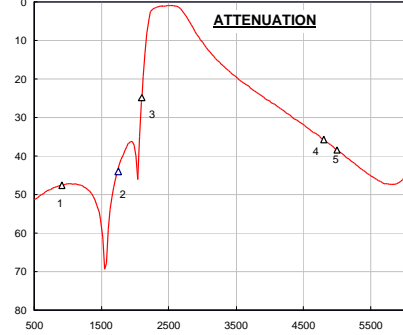
| | | |
|----------|------------|---------|
| MARKER 1 | 2400.0 MHz | 1.12243 |
| MARKER 2 | 2500.0 MHz | 1.19662 |
| MARKER 3 | MHz | |
| MARKER 4 | MHz | |
| MARKER 5 | MHz | |
| MARKER 6 | MHz | |

S21 Log MAG REF 0.0dB SCALE 0.5dB/



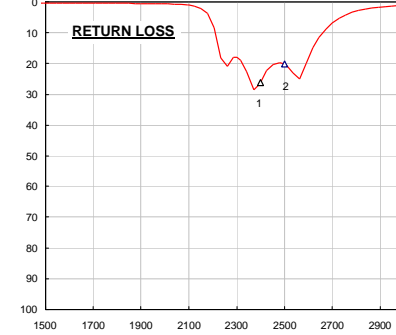
| | | |
|----------|------------|----------|
| MARKER 1 | 2400.0 MHz | 1.038 dB |
| MARKER 2 | 2500.0 MHz | 0.943 dB |
| MARKER 3 | MHz | |
| MARKER 4 | MHz | |
| MARKER 5 | MHz | |
| MARKER 6 | MHz | |

S12 Log MAG REF 0.0dB SCALE 10.0dB/



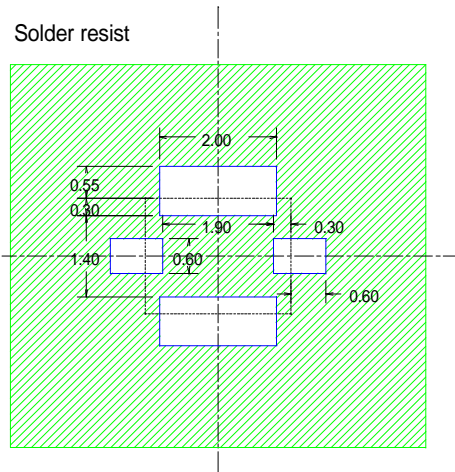
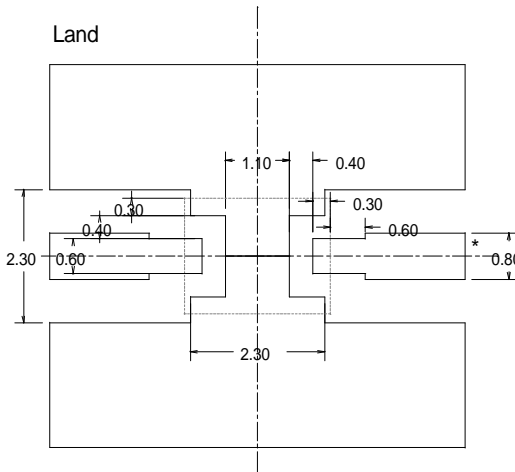
| | | |
|----------|------------|-----------|
| MARKER 1 | 915.0 MHz | 47.591 dB |
| MARKER 2 | 1750.0 MHz | 44.040 dB |
| MARKER 3 | 2100.0 MHz | 24.814 dB |
| MARKER 4 | 4800.0 MHz | 35.737 dB |
| MARKER 5 | 5000.0 MHz | 38.426 dB |
| MARKER 6 | MHz | |

S22 Log MAG REF 0.0dB SCALE 10.0dB/



| | | |
|----------|------------|-----------|
| MARKER 1 | 2400.0 MHz | 26.192 dB |
| MARKER 2 | 2500.0 MHz | 20.169 dB |
| MARKER 3 | MHz | |
| MARKER 4 | MHz | |
| MARKER 5 | MHz | |
| MARKER 6 | MHz | |

[Recommended PCB Pattern]



* Line width be designed to match 50ohm characteristic impedance, depending on PCB material and thickness.

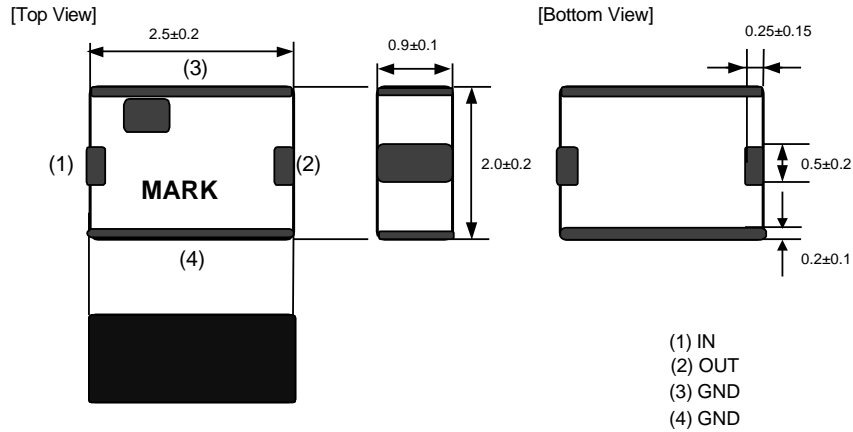
(Unit:mm)

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

MULTILAYER BANDPASS FILTER SPECIFICATION

P/N: **DEA252450BT-2024C1**

[MECHANICAL DIMENSIONS]



Unit: mm

[ELECTRICAL CHARACTERISTICS]

| No. | PARAMETER | FREQ (MHz) | SPECIFICATION | | UNIT |
|-----|------------------|---------------|---------------|------|------|
| | | | Min. | Max. | |
| | Center Frequency | 2450 | - | - | |
| 1 | Insertion Loss | 2400-2500 | - | 2.1 | dB |
| 2 | Return Loss | 2400-2500 | 10.0 | - | dB |
| 3 | Attenuation | 880-915 | 45.0 | - | dB |
| 4 | Attenuation | 1710-1990 | 48.0 | - | dB |
| 5 | Attenuation | 2110-2170 | 20.0 | - | |
| 6 | Attenuation | 4800-5000 | 30.0 | - | dB |

[TEMPERATURE RANGE]

| | |
|-----------------------|--------------------|
| Storage Temperature | -40 ~ +85 degree C |
| Operation Temperature | -40 ~ +85 degree C |

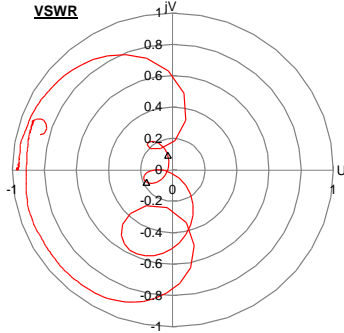
Notes : All the technical data and information contained herein are subject to change without prior notice.

[FREQUENCY CHARACTERISTICS]

DEA252450BT-2024C1

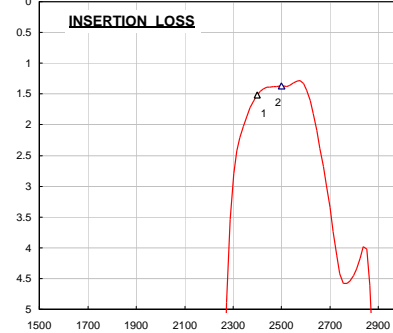
12-Oct-02

S11 POLA REF 1.0 U SCALE 1.0U FS



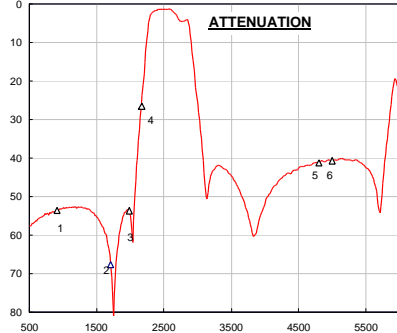
| | | |
|----------|------------|---------|
| MARKER 1 | 2400.0 MHz | 1.21408 |
| MARKER 2 | 2500.0 MHz | 1.44606 |
| MARKER 3 | MHz | |
| MARKER 4 | MHz | |
| MARKER 5 | MHz | |
| MARKER 6 | MHz | |

S21 Log MAG REF 0.0dB SCALE 0.5dB/



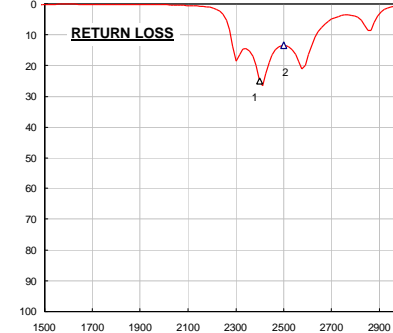
| | | |
|----------|------------|----------|
| MARKER 1 | 2400.0 MHz | 1.519 dB |
| MARKER 2 | 2500.0 MHz | 1.368 dB |
| MARKER 3 | MHz | |
| MARKER 4 | MHz | |
| MARKER 5 | MHz | |
| MARKER 6 | MHz | |

S12 Log MAG REF 0.0dB SCALE 10.0dB/



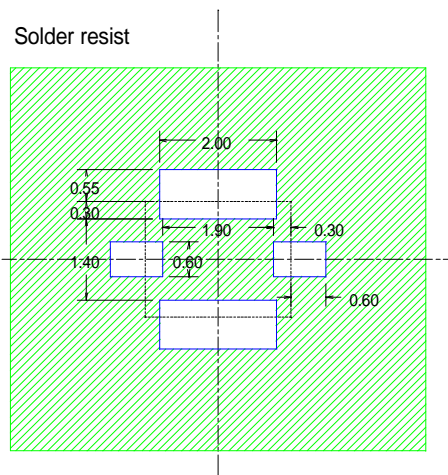
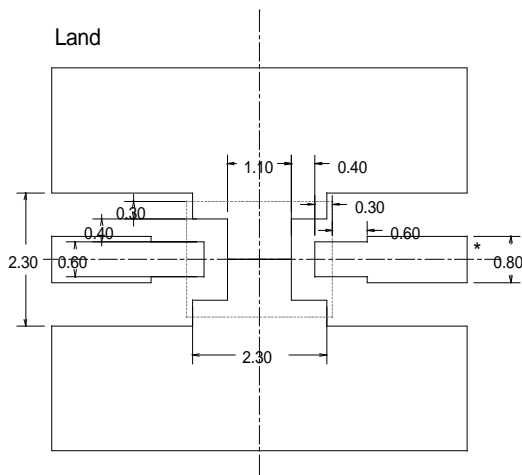
| | | |
|----------|------------|-----------|
| MARKER 1 | 915.0 MHz | 53.585 dB |
| MARKER 2 | 1710.0 MHz | 67.668 dB |
| MARKER 3 | 1990.0 MHz | 53.706 dB |
| MARKER 4 | 2170.0 MHz | 26.614 dB |
| MARKER 5 | 4800.0 MHz | 41.259 dB |
| MARKER 6 | 5000.0 MHz | 40.699 dB |

S22 Log MAG REF 0.0dB SCALE 10.0dB/



| | | |
|----------|------------|-----------|
| MARKER 1 | 2400.0 MHz | 25.052 dB |
| MARKER 2 | 2500.0 MHz | 13.361 dB |
| MARKER 3 | MHz | |
| MARKER 4 | MHz | |
| MARKER 5 | MHz | |
| MARKER 6 | MHz | |

[Recommended PCB Pattern]



* Line width be designed to match 50ohm characteristic impedance, depending on PCB material and thickness.

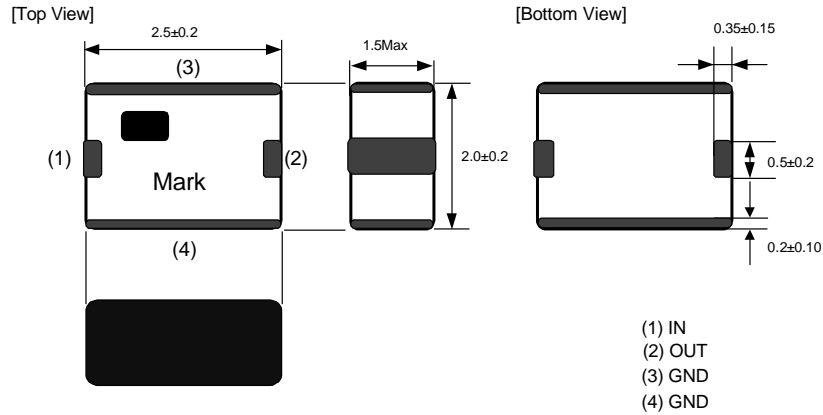
(Unit:mm)

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

MULTILAYER BANDPASS FILTER SPECIFICATION

P/N: **DEA252450BT-2037C1**

[MECHANICAL DIMENSIONS]



Unit: mm

[ELECTRICAL CHARACTERISTICS] $T_a = 25$ degree C

| No. | PARAMETER | FREQ (MHz) | SPECIFICATION | | UNIT |
|-----|------------------|------------|---------------|------|------|
| | | | Min. | Max. | |
| | Center Frequency | 2450 | - | - | |
| 1 | Insertion Loss | 2400-2500 | - | 3.0 | dB |
| 2 | Return Loss | 2400-2500 | 10.0 | - | dB |
| 3 | Attenuation | 880-915 | 43.0 | - | dB |
| 4 | Attenuation | 1710-1990 | 24.0 | - | dB |
| 5 | Attenuation | 2110-2170 | 14.0 | - | dB |
| 6 | Attenuation | 2700 | 25.0 | - | dB |
| 7 | Attenuation | 4800-5000 | 25.0 | - | dB |

[TEMPERATURE RANGE]

| | |
|-----------------------|--------------------|
| Storage Temperature | -40 ~ +85 degree C |
| Operation Temperature | -40 ~ +85 degree C |

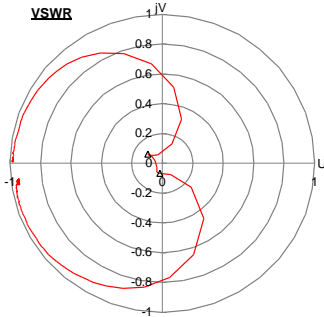
Notes : All the technical data and information contained herein are subject to change without prior notice.

[FREQUENCY CHARACTERISTICS]

DEA252450BT-2037C1

13-Jun-03

S11 POLA REF 1.0 U SCALE 1.0U FS



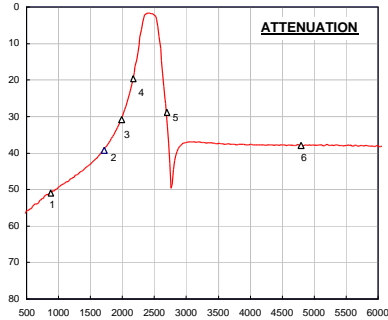
| | | |
|----------|------------|-------|
| MARKER 1 | 2410.0 MHz | 1.251 |
| MARKER 2 | 2502.0 MHz | 1.148 |
| MARKER 3 | MHz | |
| MARKER 4 | MHz | |
| MARKER 5 | MHz | |
| MARKER 6 | MHz | |

S21 Log MAG REF 0.0dB SCALE 1.0dB/



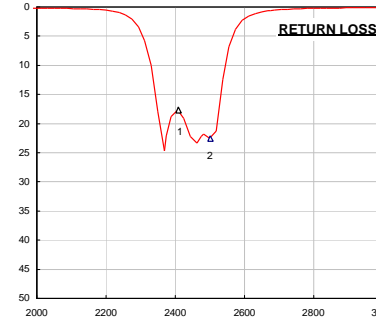
| | | |
|----------|------------|----------|
| MARKER 1 | 2400.0 MHz | 1.682 dB |
| MARKER 2 | 2500.0 MHz | 2.155 dB |
| MARKER 3 | MHz | |
| MARKER 4 | MHz | |
| MARKER 5 | MHz | |
| MARKER 6 | MHz | |

S21 Log MAG REF 0.0dB SCALE 10.0dB/



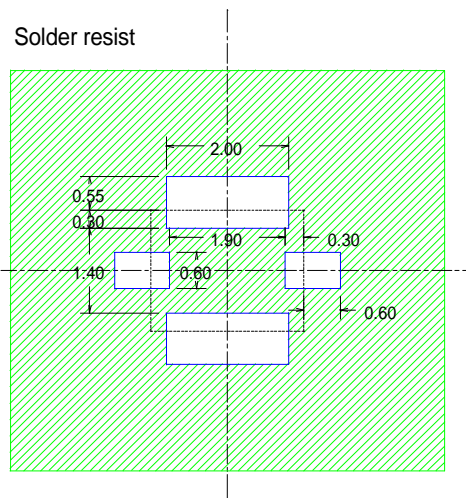
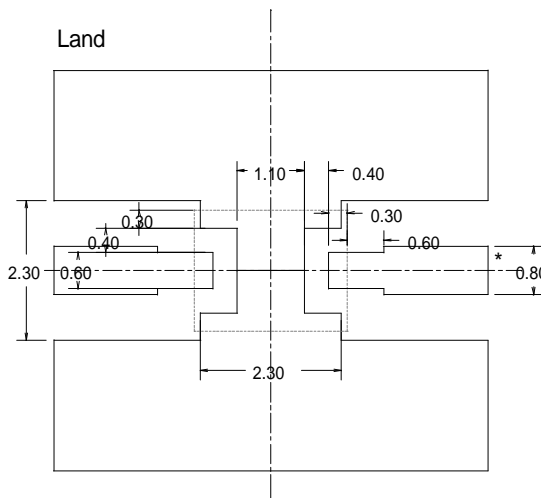
| | | |
|----------|------------|----------|
| MARKER 1 | 880.0 MHz | 51.04 dB |
| MARKER 2 | 1710.0 MHz | 39.30 dB |
| MARKER 3 | 1990.0 MHz | 30.81 dB |
| MARKER 4 | 2170.0 MHz | 19.64 dB |
| MARKER 5 | 2700.0 MHz | 28.86 dB |
| MARKER 6 | 4800.0 MHz | 37.95 dB |

S11 Log MAG REF 0.0dB SCALE 5.0dB/



| | | |
|----------|------------|----------|
| MARKER 1 | 2410.0 MHz | 17.62 dB |
| MARKER 2 | 2502.0 MHz | 22.55 dB |
| MARKER 3 | MHz | |
| MARKER 4 | MHz | |
| MARKER 5 | MHz | |
| MARKER 6 | MHz | |

[Recommended PCB Pattern]



* Line width be designed to match 50ohm characteristic impedance, depending on PCB material and thickness.

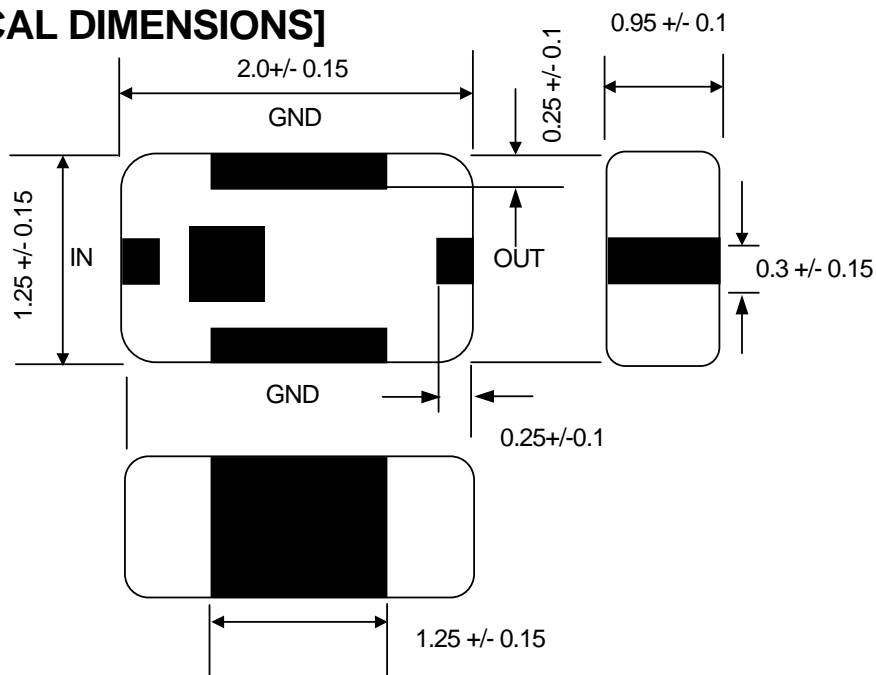
(Unit:mm)

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MULTILAYER BANDPASS FILTER SPECIFICATION

P/N: **DEA202450BT-1213B1**

[MECHANICAL DIMENSIONS]



[ELECTRICAL CHARACTERISTICS] $T_a=25$ degree C

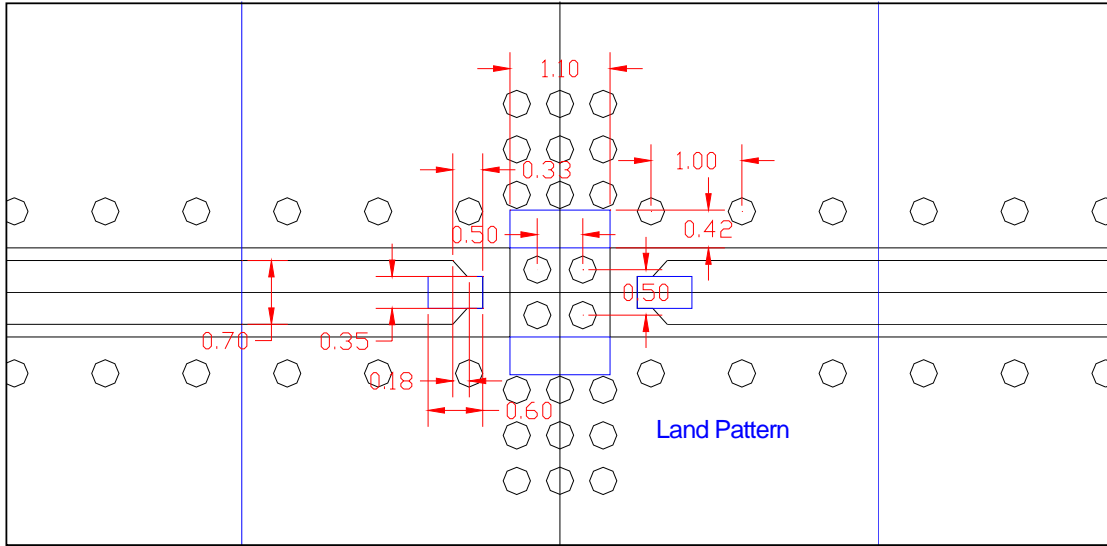
| No. | PARAMETER | FREQ (MHz) | SPECIFICATION | | UNIT |
|-----|----------------|------------|---------------|------|------|
| | | | Min. | Max. | |
| 1 | Insertion Loss | 2400-2500 | - | 1.5 | dB |
| 2 | Return Loss | 2400-2500 | 10.0 | - | dB |
| 3 | Attenuation | 300 | 12.0 | - | dB |
| 4 | Attenuation | 1200-1300 | 22.0 | - | dB |
| 5 | Attenuation | 2000 | 4.0 | - | dB |
| 6 | Attenuation | 3600-3800 | 30.0 | - | dB |
| 7 | Attenuation | 4800-5000 | 38.0 | - | dB |

[TEMPERATURE RANGE]

| | |
|-----------------------|--------------------|
| Storage Temperature | -40 ~ +85 degree C |
| Operation Temperature | -40 ~ +85 degree C |

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

[Recommended PCB Pattern]



Line width be designed to mach 50 ohm characteristic impedance depending on PCB material and thickness.

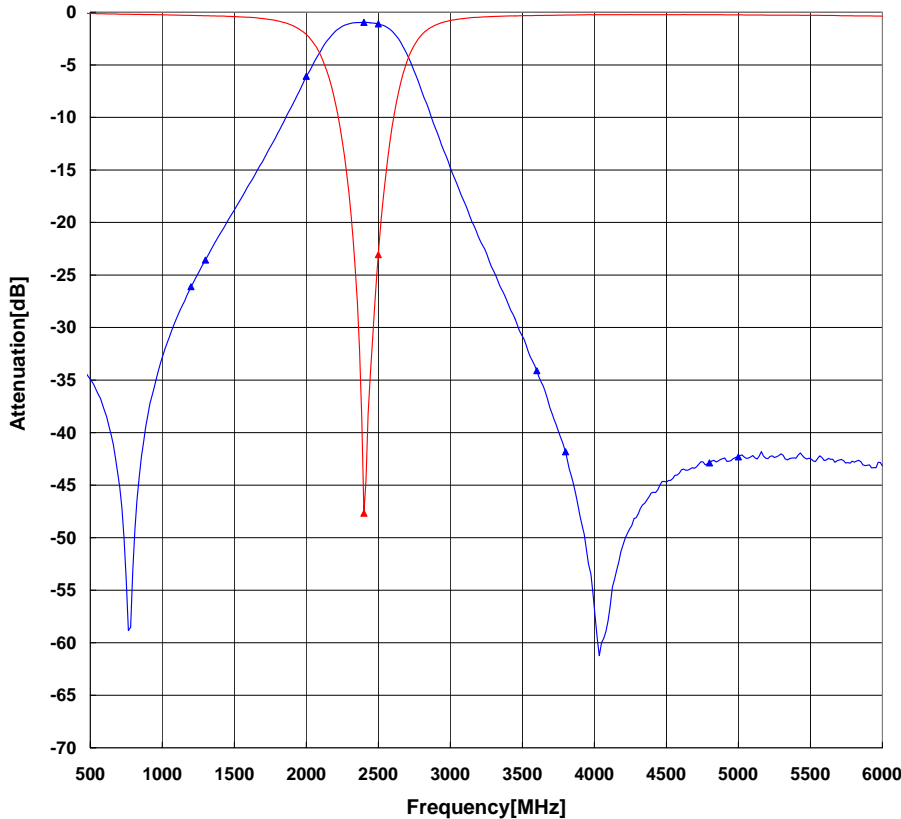
[Frequency characteristic]

DEA202450BT-1213B1

measurement Frequency : 300MHz - 6000MHz
N.W.A : HP8511CAL : OSLT

TDK Corporation

Date : 2003/4/18



Insertion Loss

2400 [MHz]
-0.946 [dB]
1.5dB max
2500 [MHz]
-1.105 [dB]
1.5dB max

Return Loss

2400 [MHz]
-47.681 [dB]
10dB min
2500 [MHz]
-23.066 [dB]
10dB min

Attenuation

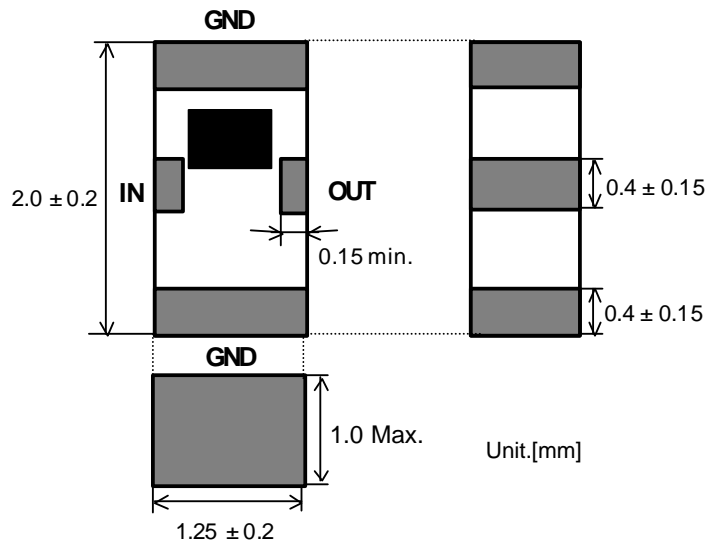
300 [MHz]
-33.408 [dB]
12dB min
1200 [MHz]
-26.126 [dB]
25dB min
1300 [MHz]
-23.583 [dB]
25dB min
2000 [MHz]
-6.097 [dB]
4dB min
3600 [MHz]
-34.112 [dB]
30dB min
3800 [MHz]
-41.838 [dB]
30dB min
4800 [MHz]
-42.884 [dB]
38dB min
5000 [MHz]
-42.322 [dB]
38dB min

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

MULTILAYER BANDPASS FILTER SPECIFICATION

P/N : **DEA202450BT-1195A1**

[MECHANICAL DIMENSIONS]



Note : These samples are marked with a trial sample identification. This applies for these samples only.
In mass production, this sample marking will be changed to show in the TDK full specification.

[ELECTRICAL CHARACTERISTICS] at 25 degree C

| No. | PARAMETER | FREQ. (MHz) | MIN | TYP | MAX | Units |
|-----|------------------|-------------|-----|-----|-----|-------|
| 1 | CENTER FREQUENCY | 2450 | - | - | - | dB |
| 2 | INSERTION LOSS | 2400 - 2500 | - | - | 2.3 | dB |
| 3 | RETURN LOSS | 2400 - 2500 | 9 | - | - | dB |
| 4 | ATTENUATION | 880 - 915 | 40 | - | - | dB |
| 5 | ATTENUATION | 915 - 1250 | 30 | - | - | dB |
| 6 | ATTENUATION | 1710 - 1990 | 23 | - | - | dB |
| 7 | ATTENUATION | 1990 - 2100 | 10 | - | - | dB |
| 8 | ATTENUATION | 4800 - 5000 | 25 | - | - | dB |
| 9 | ATTENUATION | 7200 - 7500 | 13 | - | - | dB |

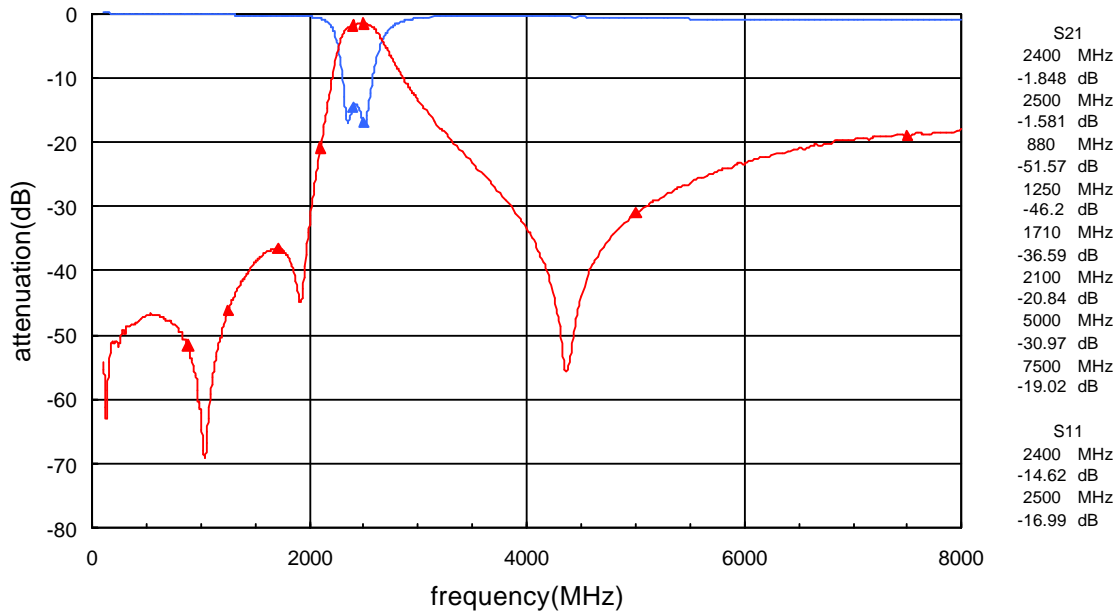
[TEMPERATURE RANGE]

STORAGE TEMPERATURE RANGE : -40 ~ +85 degree C

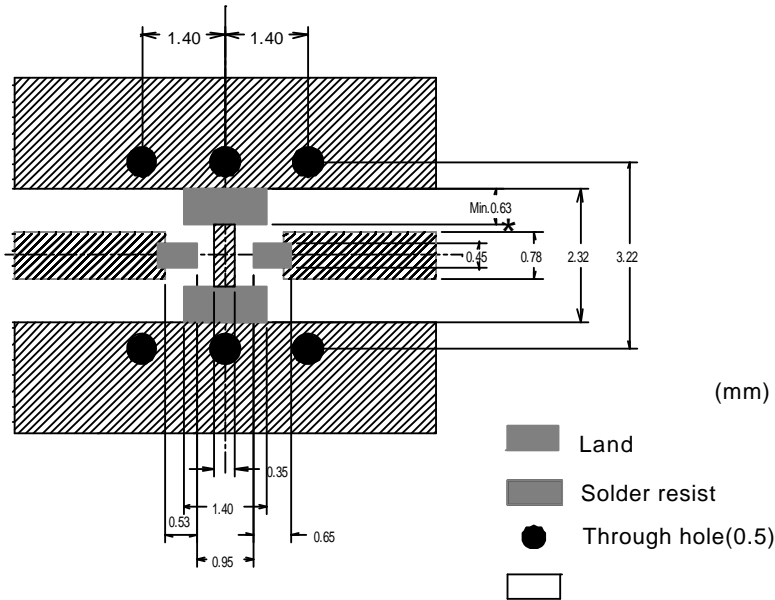
OPERATING TEMPERATURE RANGE : -40 ~ +85 degree C

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

[FREQUENCY RESPONSE]

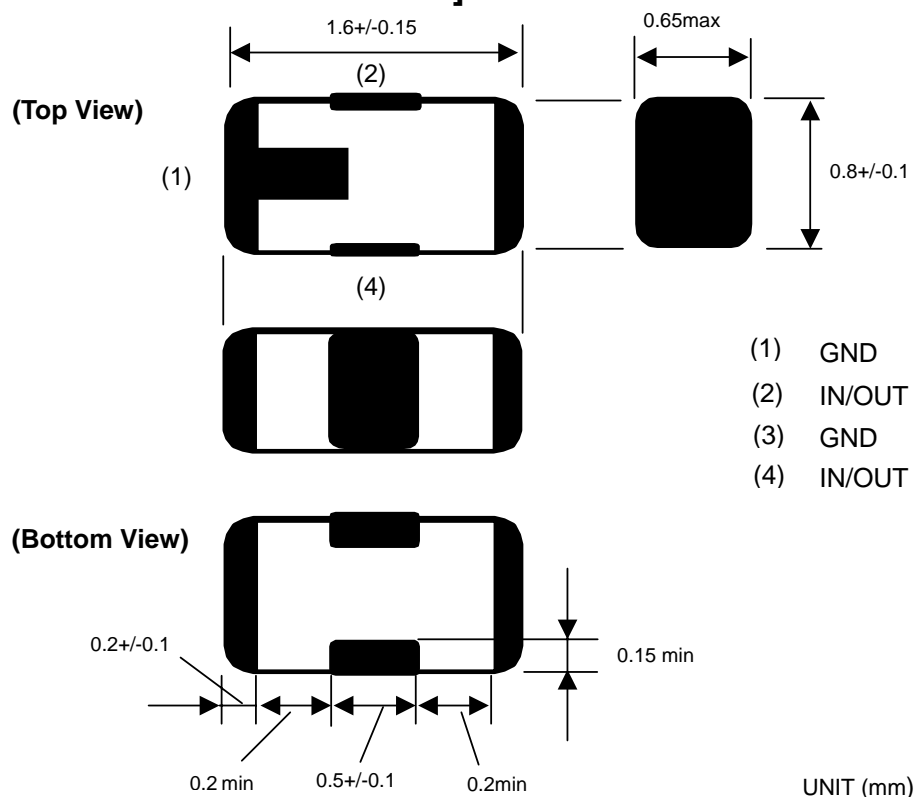


[Recommended PCB Pattern]



* : Line width be designed to match 50ohm characteristic impedance, depending on PCB material and thickness.

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

MULTILAYER BANDPASS FILTER SPECIFICATION
P/N : DEA162450BT-1210A1
[MECHANICAL DIMENSIONS]

[ELECTRICAL CHARACTERISTICS] at 25 degree C

| No | PARAMETER | FREQ. (MHz) | SPEC. | | | Units |
|----|-------------------------------|----------------|-------|-----|-----|-------|
| | | | MIN | TYP | MAX | |
| 1 | CENTER FREQUENCY | 2450 | - | - | - | |
| 2 | INSERTION LOSS(25degC) | 2400 - 2500 | - | - | 3.0 | dB |
| 3 | INSERTION LOSS(-40 to 85degC) | 2400 - 2500 | - | - | 3.3 | dB |
| 4 | RETURN LOSS | 2400 - 2500 | 7 | - | - | dB |
| 5 | ATTENUATION | 880 - 915 | 32 | - | - | dB |
| 6 | ATTENUATION | 915 - 1250 | 30 | - | - | dB |
| 7 | ATTENUATION | 1710 - 1900 | 30 | - | - | dB |
| 8 | ATTENUATION | 1900 - 2000 | 20 | 24 | - | dB |
| 9 | ATTENUATION | 4800 - 5000 | 25 | - | - | dB |

[TEMPERATURE RANGE]

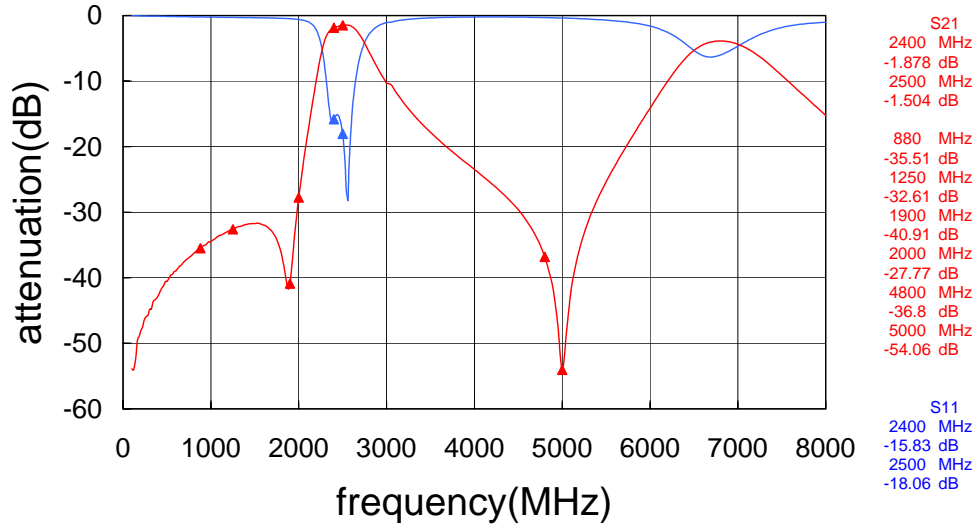
STORAGE TEMPERATURE RANGE : -40 to +85 degree C

OPERATING TEMPERATURE RANGE : -40 to +85 degree C

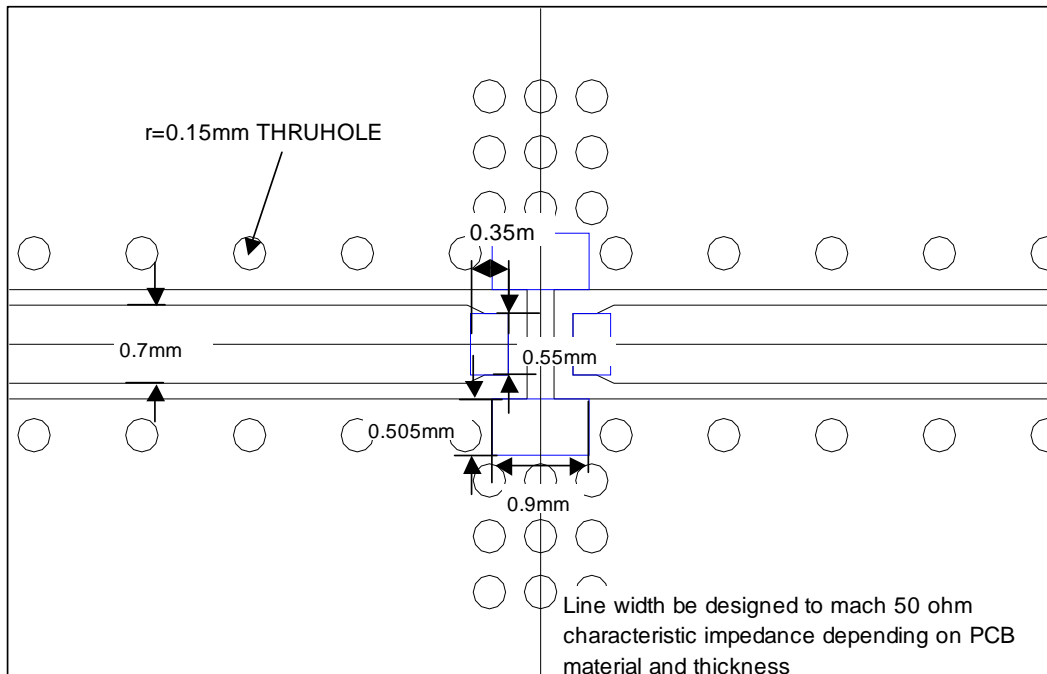
[Frequency response]

DEA162450BT-1210A1

TDK Corporation
 2004/Jun.



[Recommended PCB Pattern]



TDK Compact Filter



Sample Part No. **CF61A5901** 2GHz-W/LAN

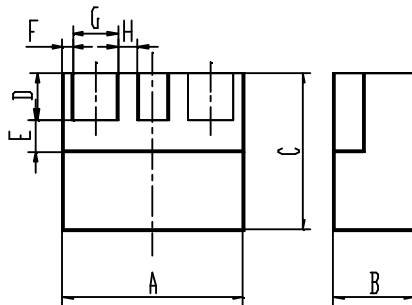
Feature

1. Compact and High performance 3pole filter
2. High reliability (Ceramic block filter)
3. SMD type

Electrical Characteristic

| Sample Part No. | | CF61A5901 | |
|-------------------|--------------|------------|----|
| Start Frequency | [MHz] | 2400 | |
| Stop Frequency | [MHz] | 2500 | |
| Insertion Loss | [dB]Max. | 1.00 | |
| VSWR | [dB]Min. | 2.00 | |
| Ripple | [dB]Min. | 0.8 | |
| Attenuation | 880~960MHz | [dB] Min. | 45 |
| | 960~1990MHz | [dB] Min. | 33 |
| | 2000MHz | [dB] Min. | 40 |
| | 2100~2170MHz | [dB] Min. | 20 |
| | 3200MHz | [dB] Min. | 20 |
| Temperature Range | | -25°~+80°C | |

Dimensions



| A | B | C | D |
|--------|--------|--------|---------|
| +/-0.2 | +/-0.1 | +/-0.3 | +/-0.15 |
| 3.6 | 1.6 | 3.0 | 0.9 |

| E | F | G | H |
|-----------|--------|-----------|-----------|
| +0.2/-0.1 | +/-0.2 | +0.2/-0.1 | +0.2/-0.1 |
| 0.6 | 0.2 | 0.9 | 0.4 |

Tolerance unless otherwise specified +/-0.30

Unit:mm

Frequency Characteristics

